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PRODUCT & SERVICES GUIDE 2021



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MORI dMEV II
ELTA FANS

Homevent is the specialist residential division of Elta Fans, offering a full range of ventilation services and products for new and existing homes. Our experienced staff are trained specifically to provide outstanding levels of technical competence and customer service to customers.

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If you would like individual overviews on any of the products in this guide, please get in touch.

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SANO LOFT MOUNTED PIV RANGE



Product Features Summary

	SANO IPIV LOFT H ECO-LoFlo & Integral Heater See pages 5-8	SANO IPIV LOFT ECO-LoFlo See pages 9-12	SANO PIV LOFT See pages 13-16
Helps control condensation.	✓	✓	✓
Improves indoor air quality.	✓	✓	✓
Unique ECO-LoFlo Energy and Comfort Optimisation hygrothermal control technology provided via integral temperature and humidity sensors.	✓	✓	
Intelligent, adjustable, multicore heater, located safely within unit casing well away from the diffuser. Works in conjunction with our ECO-LoFlo technology to minimise heater running cost.	✓		
Insulated ducting from unit to diffuser to minimise heat loss from heater.	✓		
All control parameters can be set in unit prior electrical connection providing safer and faster installation and commissioning.	✓	✓	✓
Controls located behind discreet panel on fan casing to limit undesirable or unintended incorrect adjustment of unit.	✓	✓	✓
Discreet, small (218 x 218 mm) white plastic ceiling supply air diffuser designed to shed any unwanted condensate.	✓	✓	✓
Ceiling supply air diffuser airflow direction control inserts.	✓	✓	✓
Robust, lightweight, long lasting pre-painted metal fan casing.	✓	✓	✓
Low energy, ultra-quiet fan/motor assembly.	✓	✓	✓
Low maintenance, large G4 grade filters requiring replacement typically every 5-10 years.	✓	✓	✓
Integral run monitor.	✓	✓	
8 Normal Airflow mode settings to choose from, covering a very wide range, to suit the size, layout, thermal properties and moisture production in the home.	✓	✓	✓
Heat Recovery mode function with adjustable trigger temperature setting and adjustable increased airflow setting.	✓	✓	✓
Comfort Control mode function with adjustable trigger temperature setting and adjustable decreased airflow setting.	✓	✓	✓
Standby mode function with adjustable trigger temperature.	✓	✓	✓
Supplied with suspension kit for hanging in loft space.	✓	✓	✓
Supplied with joist mounting holes in base for use if required.	✓	✓	✓
5 year warranty.	✓	✓	✓
PIV B+H Switch. Airflow Boost + Heater enable Switch. (Boost and Heater can be individually enabled/disabled).	Optional extra See page 8		
PIV B Switch. Airflow Boost enable Switch.	Optional extra See page 8	Optional extra See page 12	Optional extra See page 16
Diffuser spigot extension and intumescent collar kit for use in 3 storey and above properties.	Optional extra Details on request	Optional extra Details on request	Optional extra Details on request
Spare filters kit (2 off supplied).	Optional extra Details on request	Optional extra Details on request	Optional extra Details on request
MORI dMEV II HT PIV System Performance Enhancing "Wet Room" Extract Fan.	Optional extra See page 17	Optional extra See page 17	Optional extra See page 17

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SANO IPIV LOFT H

Intelligent Loft Mounted Positive Input Ventilation Unit

With **ECO-LoFlo** Technology & **Integral Multicore Heater**

Helping provide Whole Home Ventilation,
Condensation Dampness Control and
Radon Gas Control



SANO IPIV LOFT H

Intelligent Loft Mounted Positive Input Ventilation Unit



APPLICATION

The **SANO Intelligent PIV Loft H** is a loft mounted ultra quiet, low energy, low maintenance, home ventilation unit.

The unit is designed to help ventilate a home using the well-established **Positive Input Ventilation (PIV)** principle.

PIV units have been preventing and curing condensation dampness related problems in homes for decades. They are also used to control other indoor air pollutants and have even proven to be an effective means for reducing Radon gas in some properties.

Elta Fans' range of **SANO Intelligent PIV** units, with their unique **ECO-LoFlo** energy and comfort optimisation airflow control technology, represents a 'step change' in PIV technology.

**CONDENSATION CONTROL,
IMPROVED INDOOR AIR QUALITY
& RADON CONTROL FOR HOMES**

**ULTRA QUIET
VERY LOW RUNNING COSTS
WIDE OPERATING RANGE
VARIOUS CONTROL OPTIONS**

OPERATION

External air is drawn into the loft by the **SANO Intelligent PIV Loft H** unit. Before it passes through the unit's filter, the air increases in temperature as it utilises otherwise unused energy in the loft from solar gain and heat loss from the home. This increase can be significant, but is typically around 3°C warmer than outside air over a heating season. This energy gain is significantly more than the energy used by the unit's motor. The tempered, filtered air is then supplied centrally to the home via the unit's outlet duct and ceiling diffuser.

Integral controls allow the **SANO Intelligent PIV Loft H** unit to be set to suit the individual requirements of the home. Airflow from the unit to the home is automatically regulated via integral temperature and humidity sensors which optimise the energy benefit of the unit while ensuring that sufficient air is always supplied to help control moisture and other pollutant levels in the home.

The **SANO Intelligent PIV Loft H** is fitted with an intelligent multicore heater that tempers incoming air when required. The temperature of the incoming air is selectable between 10°C and 20°C and the heater will always try and achieve this using the least amount of energy possible. The heater works in conjunction with our industry unique ECO-LoFlo technology to provide the best comfort level for the user in the most energy efficient way.

FEATURES & BENEFITS

Discreet Small white plastic supply air diffuser which will blend well with any ceiling while distributing the air as required.

Low energy Ultra-low quiet fan/motor assembly.

Robust and lightweight Fan casing construction built to last.

Run Monitor Records time power supplied to unit.

Low maintenance Very large G4 grade filter.

Integral, multi-functional controls With wide airflow and temperature settings which allow the unit to be fine-tuned to suit the individual requirements of a home and its occupants. These controls include:

- 8 unit settings to choose from to suit the size, layout, thermal properties and moisture production in the home.
- Heat Recovery or Comfort Control mode function with adjustable trigger temperature setting and adjustable increased/decreased airflow setting.
- Standby mode which switches the unit off when the temperature reaches the pre-set "Standby" trigger temperature to save energy and prevent undesirable warm air being introduced unnecessarily in to the home. e.g. during hot summer days.
- ECO-LoFlo function
- Override Boost mode to operate the unit at its maximum airflow by means of a user switch.

Suspension kit and joist mounting brackets Supplied for use as required.

Warranty Each **SANO IPIV Loft H** has a 5 Year Warranty as standard.*



PERFORMANCE DATA

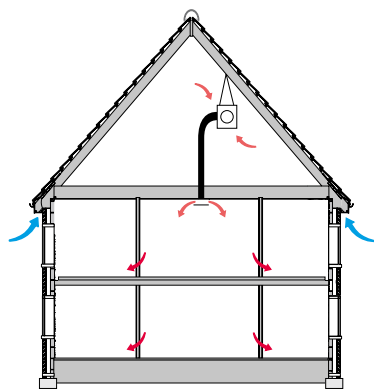
Unit Setting

The unit setting is selected by the installer to suit the size, layout, thermal properties and moisture production in the home.

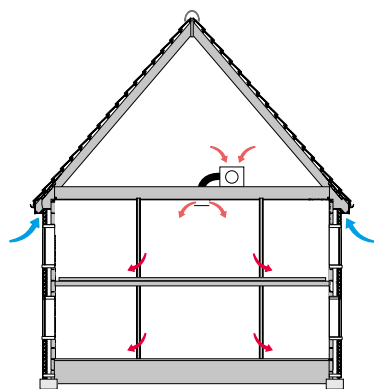
Unit Setting	Normal mode Airflow (L/s)	Power Consumption** (Watts)	Max Filter Change Interval*** (Years)
1	17	2.0	10
2	21	2.5	10
3	25	3.3	9
4	29 (default)	3.8	7.5
5	33	4.1	6.5
6	37	4.6	6
7	41	5.6	5.5
8	45	6.5	5

The power consumption shown is Normal mode and is for the PIV running without the heater. These will increase significantly when the heater is enabled. *Filter change interval is indicative. High pollution and use of Override Boost mode will affect filter life.

INSTALLATION TYPES



Suspended



Joist Mounted

MODES

Normal

The unit will run in this mode for the vast majority of its operational time until the unit's integral sensors switch it to Eco-LoFlo, Heat Recovery, Comfort Control or Standby mode or the Override Boost mode (if connected via a suitable switch) is activated by the occupants.

Eco-LoFlo

The unit constantly monitors the incoming air's temperature and moisture content. When the incoming air is below 10°C the unit checks its moisture content to see how dry it is as less drier air is needed to be supplied to the home to control internal humidity levels. The unit's Normal airflow is reduced automatically in proportion to its moisture content under this function, however, to ensure minimum ventilation rates are maintained, a minimum of 50% of Normal airflow is always provided. This unique control function can not only provide improved comfort levels for occupants, but can also significantly reduce the demand on their heating.

Heat Recovery

The unit will increase in speed when the loft temperature reaches the Heat Recovery trigger temperature to supply even more warmed air from the loft into the home.

Comfort Control

This mode can be selected as an alternative to Heat Recovery mode above. In this mode the unit will decrease in speed when the loft temperature reaches the Comfort Control trigger temperature reducing the amount of warm air entering the home.

Standby

The unit will essentially switch off when the loft temperature reaches the Standby trigger temperature to save energy and prevent undesirable warm air being introduced unnecessarily into the home e.g. during hot summer days. This function can be disabled if continuous running is required e.g. radon gas control.

Override Boost

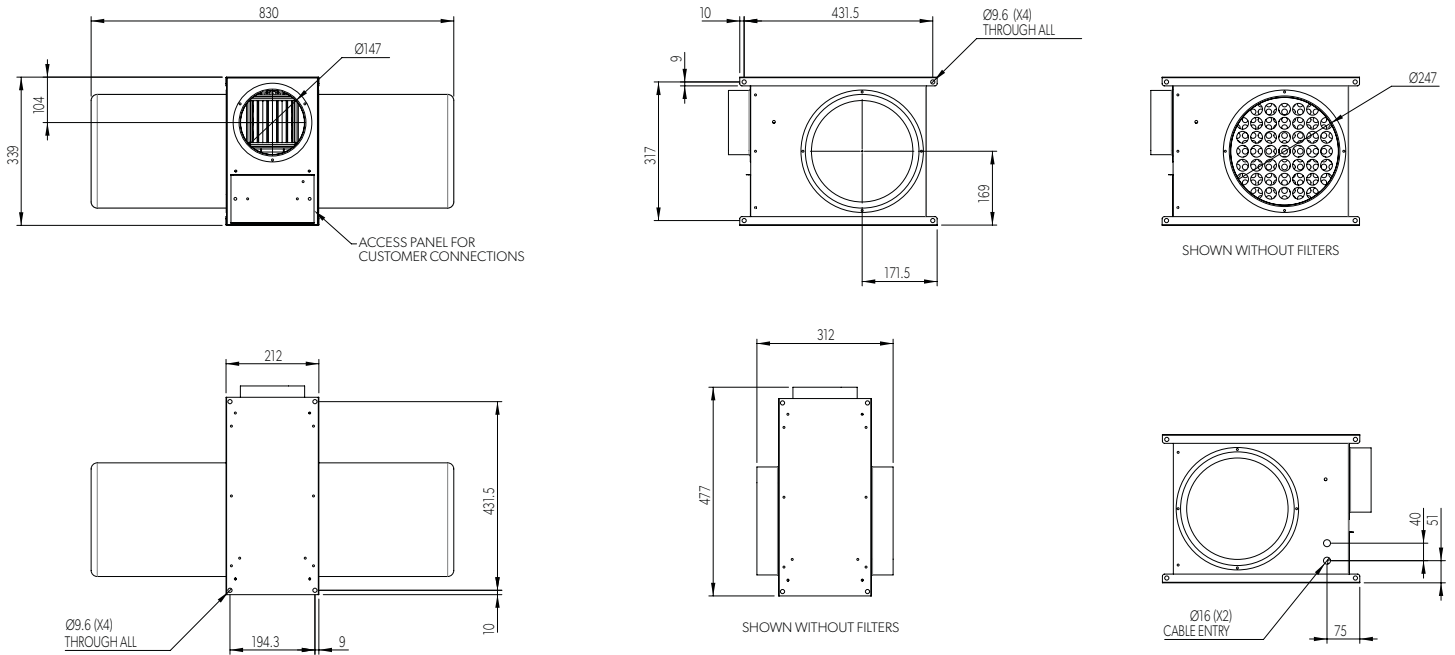
The unit's automatic controls can be overridden to operate the unit at its maximum airflow by means of a user switch hard wired to the relevant connections within the unit.

8.

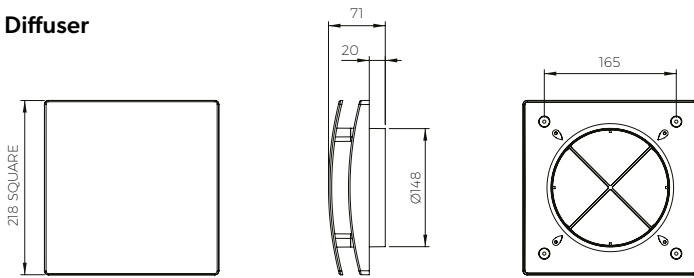
SANO IPIV LOFT H

DIMENSIONAL DATA

Unit in Loft



Diffuser



Dimensions in mm.

OPTIONAL USER CONTROL SWITCHES

PIV B Switch

PIV unit airflow **Boost** enable Switch

PIV B+H Switch

PIV unit airflow **Boost + Heater** enable Switch

(Boost and Heater can be separately enabled / disabled via switch).

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SANO IPIV LOFT

Intelligent Loft Mounted Positive Input Ventilation Unit

With **ECO-LoFlo** Technology

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SANO IPIV LOFT

Intelligent Loft Mounted Positive Input Ventilation Unit



APPLICATION

The **SANO Intelligent PIV Loft** is a loft mounted ultra quiet, low energy, low maintenance, home ventilation unit.

The unit is designed to help ventilate a home using the well-established **Positive Input Ventilation (PIV)** principle.

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IMPROVED INDOOR AIR QUALITY
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VERY LOW RUNNING COSTS
WIDE OPERATING RANGE
VARIOUS CONTROL OPTIONS**

OPERATION

External air is drawn into the loft by the **SANO Intelligent PIV Loft** unit. Before it passes through the unit's filter, the air increases in temperature as it utilises otherwise unused energy in the loft from solar gain and heat loss from the home. This increase can be significant, but is typically around 3°C warmer than outside air over a heating season. This energy gain is significantly more than the energy used by the unit's motor. The tempered, filtered air is then supplied centrally to the home via the unit's outlet duct and ceiling diffuser.

Integral controls allow the **SANO Intelligent PIV Loft** unit to be set to suit the individual requirements of the home. Airflow from the unit to the home is automatically regulated via integral temperature and humidity sensors which optimise the energy benefit of the unit while ensuring that sufficient air is always supplied to help control moisture and other pollutant levels in the home.

FEATURES / BENEFITS

Discreet Small white plastic supply air diffuser which will blend well with any ceiling while distributing the air as required.

Low energy Ultra-low quiet fan/motor assembly.

Robust and lightweight Fan casing construction built to last.

Run Monitor Records time power supplied to unit.

Low maintenance Very large G4 grade filter.

Integral, multi-functional controls With wide airflow and temperature settings which allow the unit to be fine-tuned to suit the individual requirements of a home and its occupants. These controls include:

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- Standby mode which switches the unit off when the temperature reaches the pre-set "Standby" trigger temperature to save energy and prevent undesirable warm air being introduced unnecessarily in to the home. e.g. during hot summer days.
- ECO-LoFlo function
- Override Boost mode to operate the unit at its maximum airflow by means of a user switch.

Suspension kit and joist mounting brackets Supplied for use as required.

Warranty Each **SANO IPIV Loft** has a 5 Year Warranty as standard.*



ECO ECO-LOFLO
TECHNOLOGY

HEALTHY
IAQ

5 YEAR
WARRANTY

PERFORMANCE DATA

Unit Setting

The unit setting is selected by the installer to suit the size, layout, thermal properties and moisture production in the home.

Unit Setting	Normal mode Airflow (L/s)	Power Consumption** (Watts)	Max Filter Change Interval*** (Years)
1	17	2.0	10
2	21	2.5	10
3	25	3.3	9
4	29 (default)	3.8	7.5
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7	41	5.6	5.5
8	45	6.5	5

The power consumption shown is Normal mode. *Filter change interval is indicative. High pollution and use of Override Boost mode will affect filter life.

MODES

Normal

The unit will run in this mode for the vast majority of its operational time until the unit's integral sensors switch it to Eco-LoFlo, Heat Recovery, Comfort Control or Standby mode or the Override Boost mode (if connected via a suitable switch) is activated by the occupants.

Eco-LoFlo

The unit constantly monitors the incoming air's temperature and moisture content. When the incoming air is below 10°C the unit checks its moisture content to see how dry it is as less drier air is needed to be supplied to the home to control internal humidity levels. The unit's Normal airflow is reduced automatically in proportion to its moisture content under this function, however, to ensure minimum ventilation rates are maintained, a minimum of 50% of Normal airflow is always provided. This unique control function can not only provide improved comfort levels for occupants, but can also significantly reduce the demand on their heating.

Heat Recovery

The unit will increase in speed when the loft temperature reaches the Heat Recovery trigger temperature to supply even more warmed air from the loft into the home.

Comfort Control

This mode can be selected as an alternative to Heat Recovery mode above. In this mode the unit will decrease in speed when the loft temperature reaches the Comfort Control trigger temperature reducing the amount of warm air entering the home.

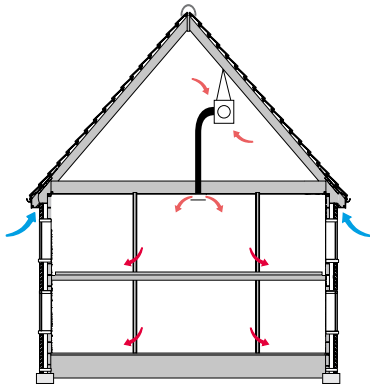
Standby

The unit will essentially switch off when the loft temperature reaches the Standby trigger temperature to save energy and prevent undesirable warm air being introduced unnecessarily into the home e.g. during hot summer days. This function can be disabled if continuous running is required e.g. radon gas control.

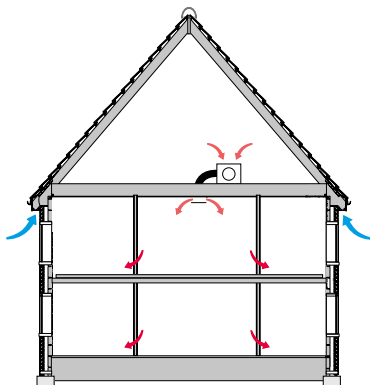
Override Boost

The unit's automatic controls can be overridden to operate the unit at its maximum airflow by means of a user switch hard wired to the relevant connections within the unit.

INSTALLATION TYPES



Suspended

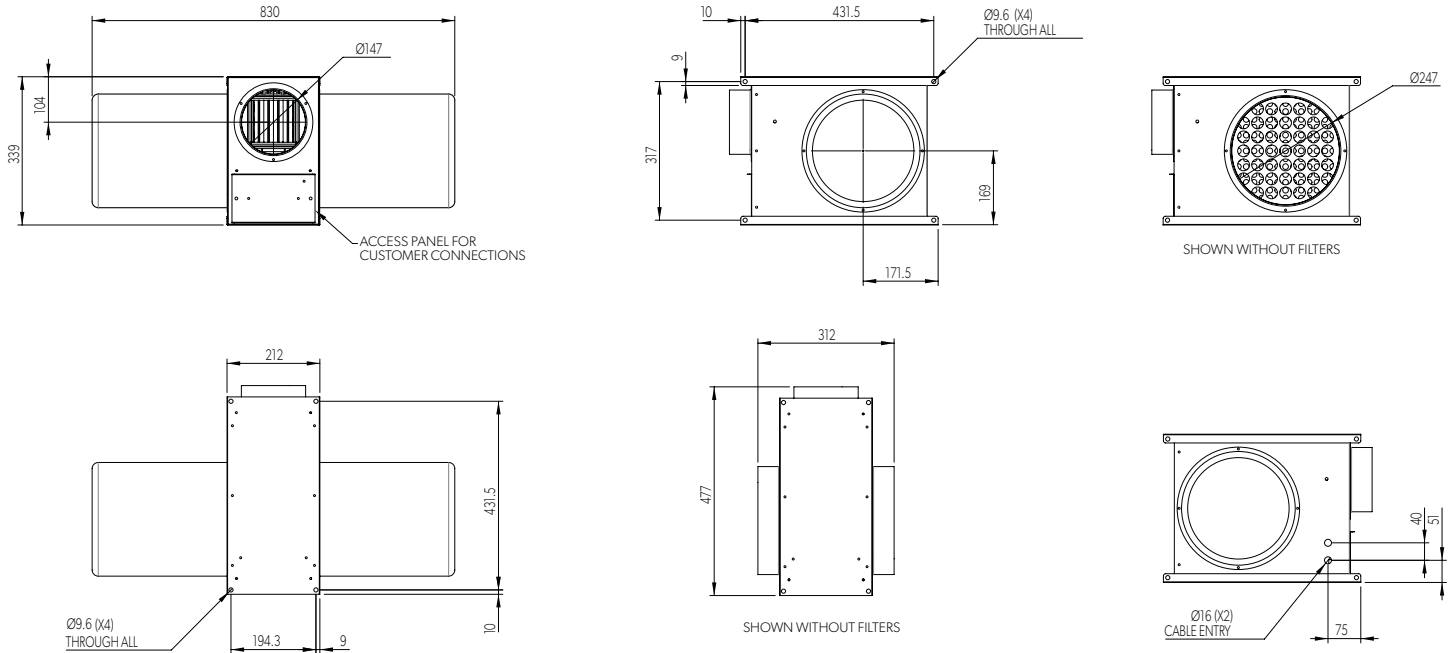


Joist Mounted

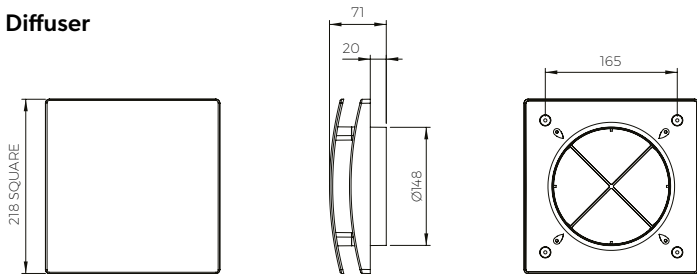
SANO IPIV LOFT

DIMENSIONAL DATA

Unit in Loft



Diffuser



Dimensions in mm.

OPTIONAL USER CONTROL SWITCH

PIV B Switch

PIV unit airflow **Boost** enable Switch

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SANO PIV LOFT

Loft Mounted Positive Input Ventilation Unit

Helping provide Whole Home Ventilation,
Condensation Dampness Control and
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SANO PIV LOFT

Loft Mounted Positive Input Ventilation Unit



APPLICATION

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Integral controls allow the **SANO PIV Loft** unit to be set to suit the individual requirements of the home. Airflow from the unit to the home is automatically regulated via an integral temperature sensor which optimises the energy benefit of the unit while ensuring that sufficient air is always supplied to help control moisture and other pollutant levels in the home.

FEATURES / BENEFITS

Discreet Small white plastic supply air diffuser which will blend well with any ceiling while distributing the air as required.

Low energy Ultra-low quiet fan/motor assembly.

Robust and lightweight Fan casing construction built to last.

Low maintenance Very large G4 grade filter.

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- 8 unit settings to choose from to suit the size, layout, thermal properties and moisture production in the home.
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- Standby mode which switches the unit off when the temperature reaches the pre-set "Standby" trigger temperature to save energy and prevent undesirable warm air being introduced unnecessarily in to the home. e.g. during hot summer days.
- Override Boost mode to operate the unit at its maximum airflow by means of a user switch.

Suspension kit and joist mounting brackets Supplied for use as required.

Warranty Each **SANO PIV Loft** has a 5 Year Warranty as standard.*



PERFORMANCE DATA

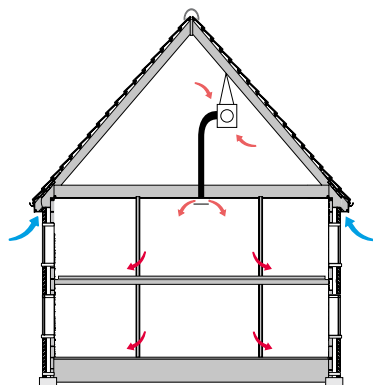
Unit Setting

The unit setting is selected by the installer to suit the size, layout, thermal properties and moisture production in the home.

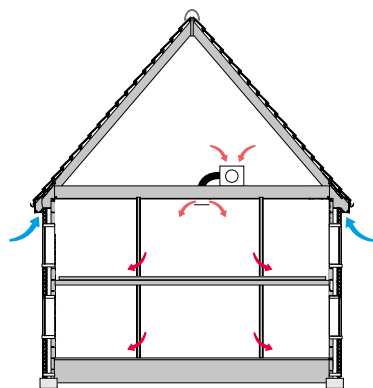
Unit Setting	Normal mode Airflow (L/s)	Power Consumption** (Watts)	Max Filter Change Interval*** (Years)
1	17	2.0	10
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5	33	4.1	6.5
6	37	4.6	6
7	41	5.6	5.5
8	45	6.5	5

The power consumption shown is Normal mode. *Filter change interval is indicative. High pollution and use of Override Boost mode will affect filter life.

INSTALLATION TYPES



Suspended



Joist Mounted

MODES

Normal

The unit will run in this mode for the vast majority of its operational time until the unit's integral temperature sensor switches it to Heat Recovery, Comfort Control or Standby mode or the Override Boost mode (if connected via a suitable switch) is activated by the occupants.

Heat Recovery

The unit will increase in speed when the loft temperature reaches the Heat Recovery trigger temperature to supply even more warmed air from the loft into the home.

Comfort Control

This mode can be selected as an alternative to Heat Recovery mode above. In this mode the unit will decrease in speed when the loft temperature reaches the Comfort Control trigger temperature reducing the amount of warm air entering the home.

Standby

The unit will essentially switch off when the loft temperature reaches the Standby trigger temperature to save energy and prevent undesirable warm air being introduced unnecessarily into the home e.g. during hot summer days. This function can be disabled if continuous running is required e.g. radon gas control.

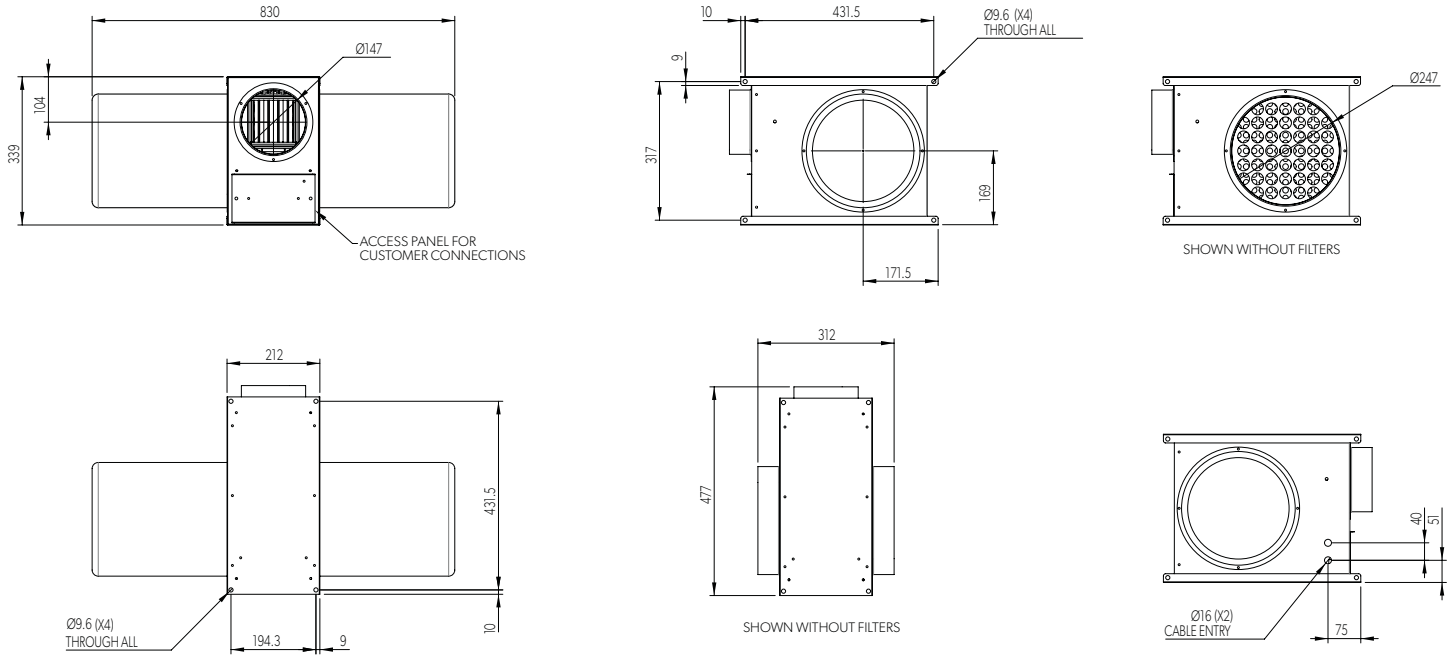
Override Boost

The unit's automatic controls can be overridden to operate the unit at its maximum airflow by means of a user switch hard wired to the relevant connections within the unit.

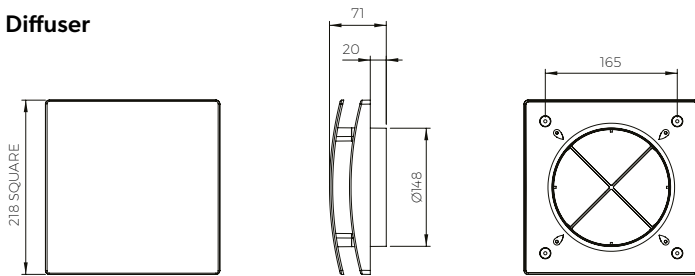
SANO PIV LOFT

DIMENSIONAL DATA

Unit in Loft



Diffuser



Dimensions in mm.

OPTIONAL USER CONTROL SWITCH

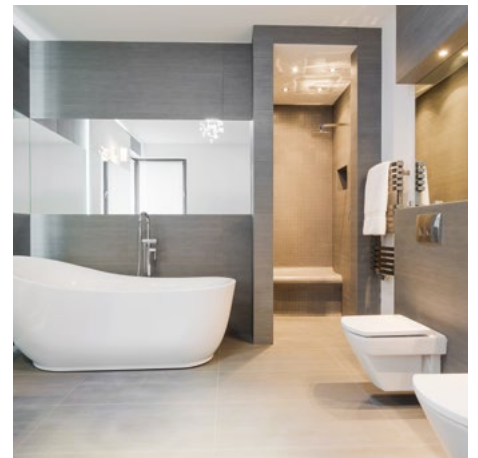
PIV B Switch

PIV unit airflow **Boost** enable Switch

PIV SYSTEM PERFORMANCE ENHANCING “WET ROOM” EXTRACT FAN

The installation of a SANO PIV loft or wall unit alone will help tackle a condensation dampness problem and improve indoor air quality in any home. Like any ventilation system it is not however a panacea and occasionally additional enhancement ventilation measures are necessary for optimum performance. The Property Care Association has produced an excellent Best Practice Guide on PIV systems and gives detailed information on when the addition of continuously running enhancement extract fans in “Wet Rooms” such as kitchens, utility rooms, bathrooms, en-suites and WCs should be considered. Such situations can include:

1. Any Wet Room which does not have an openable window or door to outside.
2. Any Wet Room where the air from a PIV unit or units would have to pass through another Wet Room to get to it.
3. Any Wet Room where the air from a PIV unit or units would have to pass through it to get to any “Habitable Room”.



MORI dMEV II HT

PIV System Performance Enhancing “Wet Room” Extract Fan

The **MORI dMEV II HT** extract fan, as shown on pages 31-34, is the perfect PIV enhancement extract fan.

SANO WALL MOUNTED PIV RANGE



Product Features Summary

	SANO IPIV WALL H ECO-LoFlo & Integral Heater See pages 19-22	SANO IPIV WALL ECO-LoFlo See pages 23-26	SANO PIV WALL See pages 27-30
Helps control condensation.	✓	✓	✓
Improves indoor air quality.	✓	✓	✓
Unique ECO-LoFlo Energy and Comfort Optimisation hygrothermal control technology provided via integral temperature and humidity sensors.	✓	✓	
Intelligent, adjustable, multicore heater. Works in conjunction with our ECO-LoFlo technology to minimise heater running cost.	✓		
In addition to end panels with inlet and outlet spigots, an additional spigot free end panel incorporating an air supply grille is also supplied as standard with the unit for use where ducting from the unit is not required.	✓	✓	✓
The unit can be "handed" left or right and can be configured on site to suit multiple installation options. These include: <ul style="list-style-type: none"> • Top left spigot inlet, top right spigot outlet • Top right spigot inlet, top left spigot outlet • Rear inlet, top right spigot outlet • Rear inlet, top left spigot outlet • Top left spigot inlet, top right unit grille outlet • Top right spigot inlet, top left unit grille outlet • Rear inlet, top right unit grille outlet • Rear inlet, top left unit grille outlet 	✓	✓	✓
All control parameters can be set in unit prior electrical connection providing safer and faster installation and commissioning.	✓	✓	✓
Controls located in box behind front cover to limit undesirable or unintended incorrect adjustment of unit.	✓	✓	✓
Compact, lightweight, long lasting pre-painted metal fan casing giving "white goods" appearance to unit.	✓	✓	✓
Low energy, ultra-quiet fan/motor assembly.	✓	✓	✓
Low maintenance, large G2 grade filter.	✓	✓	✓
Integral run monitor.	✓	✓	
6 Normal Airflow mode settings to choose from, covering a very wide range, to suit the size, layout, thermal properties and moisture production in the home.	✓	✓	✓
Comfort Control mode function with adjustable trigger temperature setting and adjustable decreased airflow setting.	✓	✓	✓
Standby mode function with adjustable trigger temperature.	✓	✓	✓
5 year warranty.	✓	✓	✓
PIV B+H Switch. Airflow Boost + Heater enable Switch. (Boost and Heater can be individually enabled/disabled).	Optional extra See page 22		
PIV B Switch. Airflow Boost enable Switch.	Optional extra See page 22	Optional extra See page 26	Optional extra See page 30
Intumescent liner to fit inside 100 mm dia. internal ducting passing through a fire rated wall.	Optional extra Details on request	Optional extra Details on request	Optional extra Details on request
Spare filter kit.	Optional extra Details on request	Optional extra Details on request	Optional extra Details on request
MORI dMEV II HT PIV System Performance Enhancing "Wet Room" Extract Fan.	Optional extra See page 17	Optional extra See page 17	Optional extra See page 17

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SANO IPIV WALL H

Intelligent Wall Mounted Positive Input Ventilation Unit

With **ECO-LoFlo** Technology
& **Integral Multicore Heater**

Helping provide Whole Home Ventilation,
Condensation Dampness Control and
Radon Gas Control



SANO IPIV WALL H

Intelligent Wall Mounted Positive Input Ventilation Unit



APPLICATION

The **SANO Intelligent PIV Wall H** is a wall mounted ultra-quiet, low energy, low maintenance, home ventilation unit.

The unit is designed to help ventilate a home using the well-established **Positive Input Ventilation (PIV)** principle.

PIV units have been preventing and curing condensation dampness related problems in homes for decades. They are also used to control other indoor air pollutants and have even proven to be an effective means for reducing Radon gas in some properties.

Elta Fans' range of **SANO Intelligent PIV** units, with their unique **ECO-LoFlo** energy and comfort optimisation airflow control technology, represents a 'step change' in PIV technology.

**CONDENSATION CONTROL,
IMPROVED INDOOR AIR QUALITY
& RADON CONTROL FOR HOMES**

**ULTRA QUIET
VERY LOW RUNNING COSTS
WIDE OPERATING RANGE
VARIOUS CONTROL OPTIONS**

OPERATION

External air is drawn into the **SANO Intelligent PIV Wall H** unit and passes through a filter before entering the home. The filtered air is typically supplied at ceiling level in a location central to the home i.e. the hallway.

Integral controls allow the **SANO Intelligent PIV Wall H** unit to be set to suit the individual requirements of the home. Airflow from the unit to the home is automatically regulated via integral temperature and humidity sensors which optimise the energy benefit of the unit while ensuring that sufficient air is always supplied to help control moisture and other pollutant levels in the home.

The **SANO Intelligent PIV Wall H** is fitted with an intelligent multicore heater that tempers incoming air when required. The temperature of the incoming air is selectable between 10°C and 20°C and the heater will always try and achieve this using the least amount of energy possible. The heater works in conjunction with our industry unique **ECO-LoFlo** technology to provide the best comfort level for the user in the most energy efficient way.

FEATURES / BENEFITS

Unique Design Allowing for simple multi handed configuration.

Discreet Unit appearance designed to blend well with any home.

Low energy Ultra-low quiet fan/motor assembly.

Robust Fan casing construction built to last.

Run Monitor Records time power supplied to unit.

Low maintenance Very large G2 grade filter.

Integral, multi-functional controls with wide airflow and temperature settings which allow the unit to be fine-tuned to suit the individual requirements of a home and its occupants. These controls include:

- 6 unit settings to choose from to suit the size, layout, thermal properties and moisture production in the home.
- Comfort Control mode function with adjustable trigger temperature setting and adjustable decreased airflow setting.
- ECO-LoFlo function
- Override Boost mode to operate the unit at its maximum airflow by means of a user switch.

Warranty Each **SANO IPIV Wall H** has a 5 Year Warranty as standard.*



PERFORMANCE DATA

Unit Setting

The unit setting is selected by the installer to suit the size, layout, thermal properties and moisture production in the home.

Unit Setting	Spigot Outlet (External grille, 5m duct, 2 x 90° bends & internal grille)		End Panel Grille Outlet	
	Flow Rate (L/s)	Watts	Flow Rate (L/s)	Watts
1	11	3.6	11	4.4
2	15	4.6	15	4.8
3 (default)	18	6.4	18	6.8
4	22	8.7	23	9.1
5	26	11.8	26	11.7
6	29	15.6	-	-

*The power consumption shown is for the PIV unit running in Normal mode without the heater. These will increase significantly when the heater is enabled

MODES

Normal The unit will run in this mode for the vast majority of its operational time until the unit's integral temperature sensor switches it to Heat Recovery or Standby mode or the Override Boost mode (if connected via a suitable switch) is activated by the occupants.

Eco-LoFlo The unit constantly monitors the incoming air's temperature and moisture content. When the incoming air is below 10°C the unit checks its moisture content to see how dry it is as less drier air is needed to be supplied to the home to control internal humidity levels. The unit's Normal airflow is reduced automatically in proportion to its moisture content under this function, however, to ensure minimum ventilation rates are maintained, a minimum of 50% of Normal airflow is always provided. This unique control function can not only provide improved comfort levels for occupants, but can also significantly reduce the demand on their heating.

Comfort Control The unit will decrease in speed when the supply air temperature reaches the Comfort Control trigger temperature. This can save energy, increase the service intervals and prevent undesirable warm air being introduced unnecessarily into the home e.g. during hot summer days

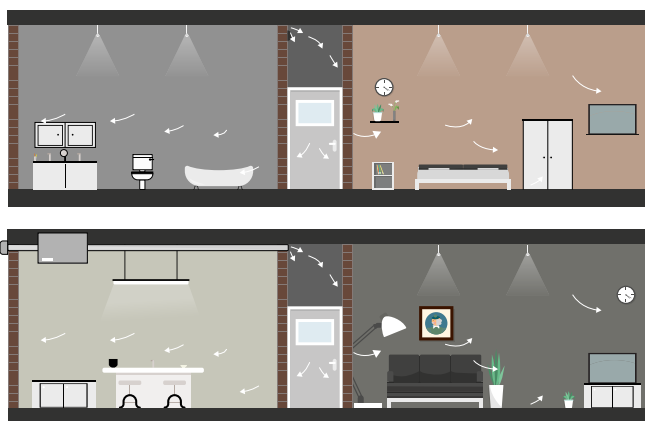
Override Boost The unit's automatic controls can be overridden to operate the unit at its maximum airflow by means of a user switch hard wired to the relevant connections within the unit.

GRILLE

An optional flat end panel grille is supplied as standard with the **SANO IPIV WALL H**.

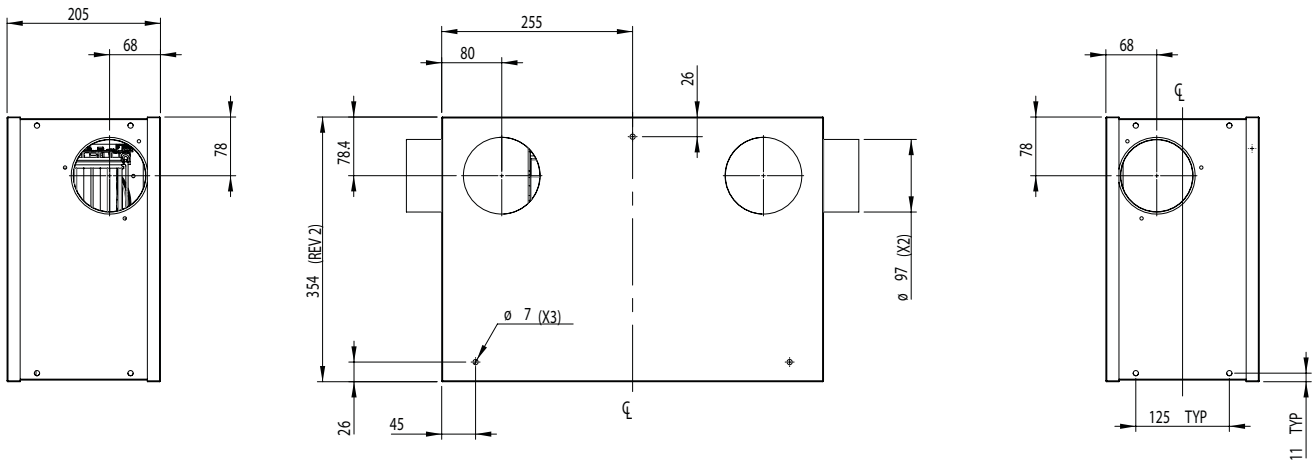


INSTALLATION TYPES



SANO IPIV WALL H

DIMENSIONAL DATA



Dimensions in mm.

Note: The unit can be configured on site to suit multiple installation options. These include:

- Top left spigot inlet, top right spigot outlet
- Top right spigot inlet, top left spigot outlet
- Rear inlet, top right spigot outlet
- Rear inlet, top left spigot outlet
- Top left spigot inlet, top right unit grille outlet
- Top right spigot inlet, top left unit grille outlet
- Rear inlet, top right unit grille outlet
- Rear inlet, top left unit grille outlet

OPTIONAL USER CONTROL SWITCHES

PIV B Switch

PIV unit airflow **Boost** enable Switch

PIV B+H Switch

PIV unit airflow **Boost + Heater** enable Switch

(Boost and Heater can be separately enabled / disabled via switch).

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A division of Elta Fans

SANO IPIV WALL



Intelligent Wall Mounted Positive Input Ventilation Unit

With **ECO-LoFlo** Technology

Helping provide Whole Home Ventilation, Condensation Dampness Control and Radon Gas Control



SANO IPIV WALL

Intelligent Wall Mounted Positive Input Ventilation Unit



APPLICATION

The **SANO Intelligent PIV Wall** is a wall mounted ultra-quiet, low energy, low maintenance, home ventilation unit.

The unit is designed to help ventilate a home using the well-established **Positive Input Ventilation (PIV)** principle.

PIV units have been preventing and curing condensation dampness related problems in homes for decades. They are also used to control other indoor air pollutants and have even proven to be an effective means for reducing Radon gas in some properties.

Elta Fans' range of **SANO Intelligent PIV** units, with their unique **ECO-LoFlo** energy and comfort optimisation airflow control technology, represents a 'step change' in PIV technology.

**CONDENSATION CONTROL,
IMPROVED INDOOR AIR QUALITY
& RADON CONTROL FOR HOMES**

**ULTRA QUIET
VERY LOW RUNNING COSTS
WIDE OPERATING RANGE
VARIOUS CONTROL OPTIONS**

OPERATION

External air is drawn into the **SANO Intelligent PIV Wall** unit and passes through a filter before entering the home. The filtered air is typically supplied at ceiling level in a location central to the home i.e. the hallway.

Integral controls allow the **SANO Intelligent PIV Wall** unit to be set to suit the individual requirements of the home. Airflow from the unit to the home is automatically regulated via integral temperature and humidity sensors which optimise the energy benefit of the unit while ensuring that sufficient air is always supplied to help control moisture and other pollutant levels in the home.

FEATURES & BENEFITS

Unique Design Allowing for simple multi handed configuration.

Discreet Unit appearance designed to blend well with any home.

Low energy Ultra-low quiet fan/motor assembly.

Robust Fan casing construction built to last.

Run Monitor Records time power supplied to unit.

Low maintenance Large G2 grade filter.

Integral, multi-functional controls with wide airflow and temperature settings which allow the unit to be fine-tuned to suit the individual requirements of a home and its occupants. These controls include:

- 6 unit settings to choose from to suit the size, layout, thermal properties and moisture production in the home.
- Comfort Control mode function with adjustable trigger temperature setting and adjustable decreased airflow setting.
- ECO-LoFlo function.
- Override Boost mode to operate the unit at its maximum airflow by means of a user switch.

Warranty Each **SANO IPIV Wall** has a 5 Year Warranty as standard.*



PERFORMANCE DATA

Unit Setting

The unit setting is selected by the installer to suit the size, layout, thermal properties and moisture production in the home.

Unit Setting	Spigot Outlet (5m duct 2x bends)		Grille Outlet	
	Flow Rate (L/s)	Watts	Flow Rate (L/s)	Watts
1	13	3.7	14	4.5
2	17	4.8	17	5.2
3 (default)	21	6.4	21	6.9
4	25	9.2	25	9.3
5	29	11.1	29	12.7
6	33	16.8	34	16.8

* The power consumption shown is for the PIV unit running in Normal mode

MODES

Normal The unit will run in this mode for the vast majority of its operational time until the unit’s integral temperature sensor switches it to Heat Recovery or Standby mode or the Override Boost mode (if connected via a suitable switch) is activated by the occupants.

Eco-LoFlo The unit constantly monitors the incoming air’s temperature and moisture content. When the incoming air is below 10°C the unit checks its moisture content to see how dry it is as less drier air is needed to be supplied to the home to control internal humidity levels. The unit’s Normal airflow is reduced automatically in proportion to its moisture content under this function, however, to ensure minimum ventilation rates are maintained, a minimum of 50% of Normal airflow is always provided. This unique control function can not only provide improved comfort levels for occupants, but can also significantly reduce the demand on their heating.

Comfort Control The unit will decrease in speed when the supply air temperature reaches the Comfort Control trigger temperature. This can save energy, increase the service intervals and prevent undesirable warm air being introduced unnecessarily into the home e.g. during hot summer days

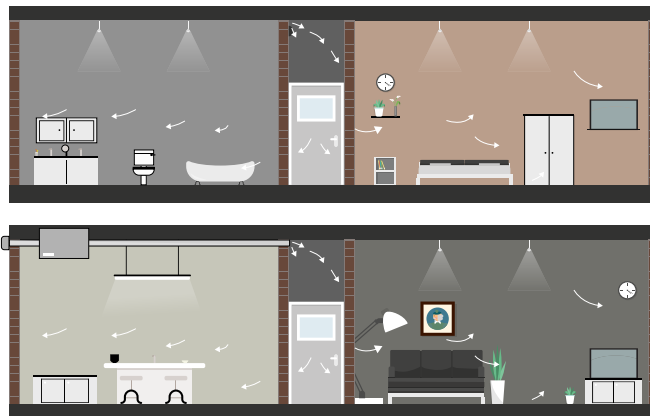
Override Boost The unit’s automatic controls can be overridden to operate the unit at its maximum airflow by means of a user switch hard wired to the relevant connections within the unit.

GRILLE

An optional flat end panel grille is supplied as standard with the **SANO IPIV Wall**.

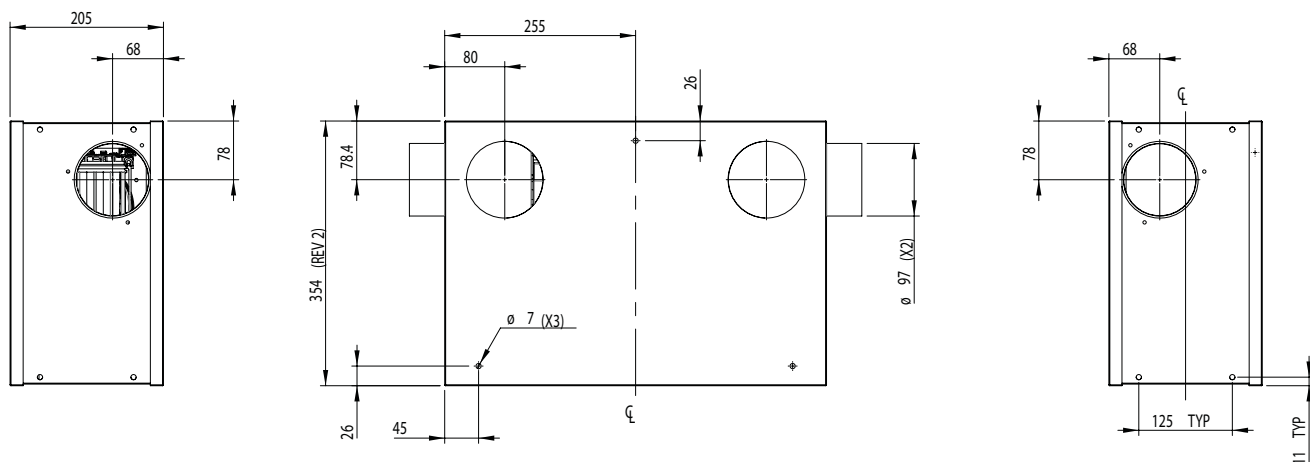


INSTALLATION TYPES



SANO IPIV WALL

DIMENSIONAL DATA



Dimensions in mm.

Note: The unit can be configured on site to suit multiple installation options. These include:

- Top left spigot inlet, top right spigot outlet
- Top right spigot inlet, top left spigot outlet
- Rear inlet, top right spigot outlet
- Rear inlet, top left spigot outlet
- Top left spigot inlet, top right unit grille outlet
- Top right spigot inlet, top left unit grille outlet
- Rear inlet, top right unit grille outlet
- Rear inlet, top left unit grille outlet

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SANO PIV WALL

Wall Mounted Positive
Input Ventilation Unit

Helping provide Whole Home Ventilation,
Condensation Dampness Control and
Radon Gas Control



SANO PIV WALL

Wall Mounted Positive Input Ventilation Unit



APPLICATION

The **SANO PIV Wall** is a wall mounted ultra-quiet, low energy, low maintenance, home ventilation unit.

The unit is designed to help ventilate a home using the well-established **Positive Input Ventilation (PIV)** principle.

PIV units have been preventing and curing condensation dampness related problems in homes for decades. They are also used to control other indoor air pollutants and have even proven to be an effective means for reducing Radon gas in some properties.



OPERATION

External air is drawn into the **SANO PIV Wall** unit and passes through a filter before entering the home. The filtered air is typically supplied at ceiling level in a location central to the home i.e. the hallway where it mixes with the otherwise wasted warm air that gathers at ceiling level due to stack effect.

Integral controls allow the **SANO PIV Wall** unit to be set to suit the individual requirements of the home. Airflow from the unit to the home is automatically regulated via an integral temperature sensor which optimises the energy benefit of the unit while ensuring that sufficient air is always supplied to help control moisture and other pollutant levels in the home.



FEATURES / BENEFITS

Unique Design Allowing for simple multi handed configuration.

Discreet Unit appearance designed to blend well with any home.

Low energy Ultra-low quiet fan/motor assembly.

Robust Fan casing construction built to last.

Low maintenance Large G2 grade filter.

Integral, multi-functional controls with wide airflow and temperature settings which allow the unit to be fine-tuned to suit the individual requirements of a home and its occupants. These controls include:

- 6 unit settings to choose from to suit the size, layout, thermal properties and moisture production in the home.
- Comfort Control mode function with adjustable trigger temperature setting and adjustable decreased airflow setting.
- Override Boost mode to operate the unit at its maximum airflow by means of a user switch.

Warranty Each **SANO PIV Wall** has a 5 Year Warranty as standard.*

**CONDENSATION CONTROL,
IMPROVED INDOOR AIR QUALITY
& RADON CONTROL FOR HOMES**

**ULTRA QUIET
VERY LOW RUNNING COSTS
WIDE OPERATING RANGE
VARIOUS CONTROL OPTIONS**



PERFORMANCE DATA

Unit Setting

The unit setting is selected by the installer to suit the size, layout, thermal properties and moisture production in the home.

Unit Setting	Spigot Outlet (5m duct 2x bends)		Grille Outlet	
	Flow Rate (L/s)	Watts	Flow Rate (L/s)	Watts
1	13	3.7	14	4.5
2	17	4.8	17	5.2
3 (default)	21	6.4	21	6.9
4	25	9.2	25	9.3
5	29	11.1	29	12.7
6	33	16.8	34	16.8

* The power consumption shown is for the PIV unit running in Normal mode.

MODES

Normal The unit will run in this mode for the vast majority of its operational time until the unit’s integral temperature sensor switches it to Heat Recovery or Standby mode or the Override Boost mode (if connected via a suitable switch) is activated by the occupants.

Comfort Control The unit will decrease in speed when the supply air temperature reaches the Comfort Control trigger temperature. This can save energy, increase the service intervals and prevent undesirable warm air being introduced unnecessarily into the home e.g. during hot summer days

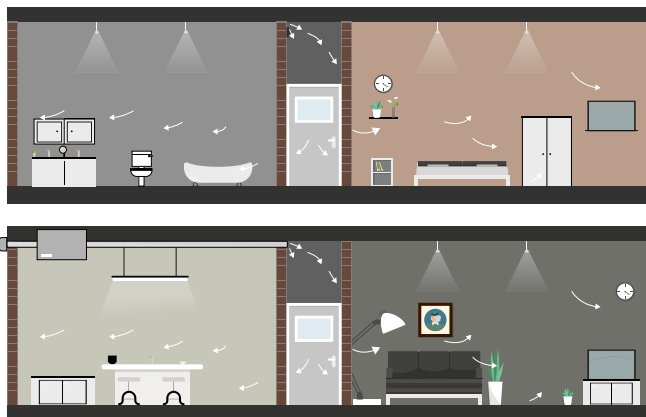
Override Boost The unit’s automatic controls can be overridden to operate the unit at its maximum airflow by means of a user switch hard wired to the relevant connections within the unit.

GRILLE

An optional flat end panel grille is supplied as standard with the **SANO PIV Wall**.

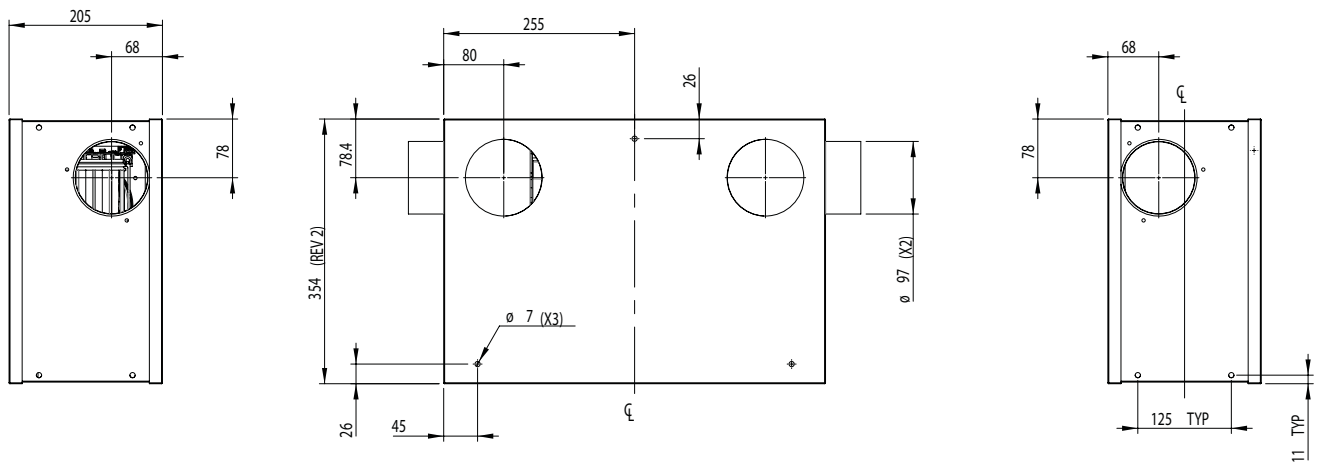


INSTALLATION TYPES



SANO PIV WALL

DIMENSIONAL DATA



Dimensions in mm.

Note: The unit can be configured on site to suit multiple installation options.

These include:

- Top left spigot inlet, top right spigot outlet
- Top right spigot inlet, top left spigot outlet
- Rear inlet, top right spigot outlet
- Rear inlet, top left spigot outlet
- Top left spigot inlet, top right unit grille outlet
- Top right spigot inlet, top left unit grille outlet
- Rear inlet, top right unit grille outlet
- Rear inlet, top left unit grille outlet

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A division of Elta Fans

MORI dMEV II

De-Centralised Mechanical
Extract Ventilation Fans

Helping provide Whole Home Ventilation
and Condensation Dampness Control



MORI dMEV II

De-Centralised Mechanical Extract Ventilation Fans



APPLICATION

A choice of three continuously running, low energy, ultra quiet extract fans for use in kitchens, utility rooms, bathrooms, shower rooms, en-suites and toilets.

Unlike conventional intermittent operating extract fans, continuously running extract fans like the **MORI dMEV II** range do not have a high dependency on background ventilators (e.g. trickle vents in windows) to effectively ventilate a dwelling. In more airtight homes, they will generally require less background ventilators than intermittent operating fans and in less airtight homes, they are unlikely to require any at all. The low dependency on background ventilators combined with extremely low noise levels and running costs, and a wide range of controls and duties to suit various applications, has resulted in the **MORI dMEV II** range of fans becoming the first choice extract fan range for an increasing number of customers throughout the UK and Ireland.

suitable for bathrooms, showers,
en-suites, utilities & kitchens

ULTRA QUIET
VERY LOW RUNNING COSTS
REGULATORY COMPLIANT
WIDE OPERATING RANGE



OPERATION

MORI dMEV II HT

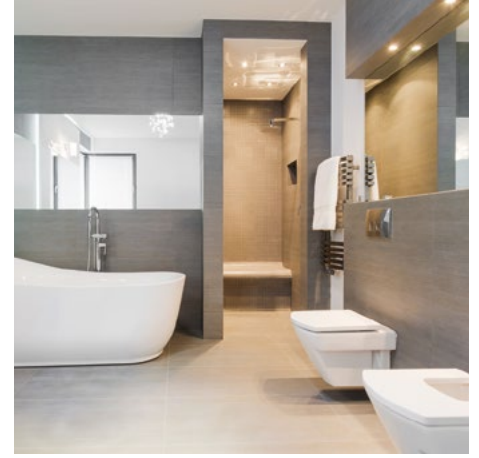
3 conventional flow Background/Trickle speed settings to choose from on site. Comfort Boost flow rate is approximately half way between the pre-set Background and Boost flow rates and is activated by an integral adjustable humidistat. Boost flow rate is activated via the integral pull cord or an external switch via a switched live connection inside the fan. The unit has an adjustable Boost run on timer which is only triggered when Boost has been activated for over 60 seconds to prevent unintentional boost run on.

MORI dMEV II T

3 Conventional flow Background/Trickle speed settings to choose from on site. Boost flow rate is activated via the integral pull cord or an external switch via a switched live connection inside the fan. The unit has a similar Boost run on timer facility to the **MORI dMEV II HT** unit.

MORI dMEV II 150HT

A larger version of the **MORI dMEV II HT**, the unit has 8 Conventional flow Background/Trickle speed settings to choose from on site to achieve Regulatory Compliance where higher whole dwelling ventilation rates are required e.g. high occupancy or larger dwellings.



FEATURES / BENEFITS

Regulatory compliant Complies with all UK building regulation requirements.

Extremely low power consumption Annual running costs of as little as £1 per year for continuous operation.

Ultra quiet Almost imperceptible noise levels on lower Background settings.

Aesthetically pleasing front cover Blends in well with different wall and ceiling finishes.

Highly flexible Suitable for wall, ceiling or window mounting.

Wide application range Wide application range 3 Background settings to choose from (8 on 150HT model). Humidistat control option available on **MORI dMEV II HT** and **MORI dMEV II 150HT** models.

Resilient Suitable for ambient temperatures up to 50°C.

IPX4 splash proof Suitable for installation in Zones 1 and 2. Kit required if ceiling mounted.

Double insulated No earth connection required.

High Performance Boost MORI dMEV II 150 HT offers 50 l/s boost for higher extract requirements.

Rigorously tested to relevant standards Each fan is individually tested prior to leaving the factory.

Warranty Each **MORI dMEV II** has a 5 year warranty as standard.*

MORI dMEV II

100mm dia fan spigot

IPX4 RATED
SPLASHPROOF

TOTALLY
RECYCLABLE

5 YEAR
WARRANTY

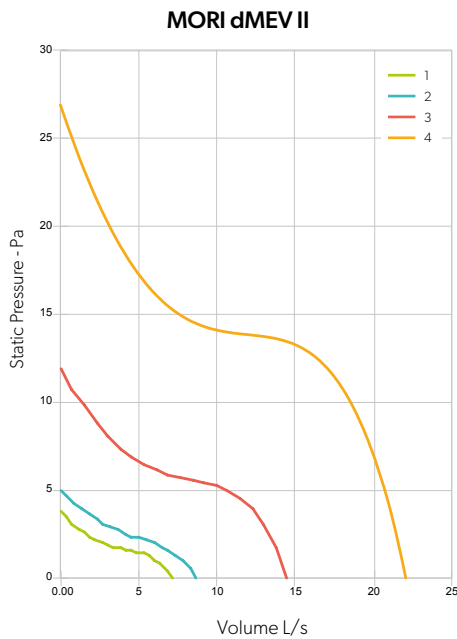


PERFORMANCE DATA

Performance curve	Airflow L/s	Power W max	Sound Pressure dB(A) @ 3m	Ambient Temperature °C max
1	6	1	11	50
2	8	1.2	13	
3	13	1.7	23	
4	Boost - 23	2.5	26	

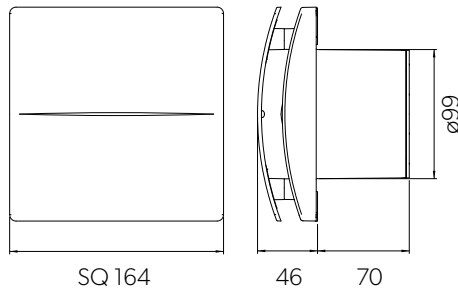
220-240V, 50Hz. Air performance measured according to ISO 5801.
MORI dMEV II HT - Energy rating: C. MORI dMEV II T - Energy rating: E.

PERFORMANCE CURVES



DIMENSIONAL DATA

Dimensions in mm



ACCESSORIES



Supplied
Ceiling Mount Kit
410-CG100



Optional
Window Kit with
External Fixed Grille
410-WKG100

A full range of ancillaries and ducting are available. Please contact us for more details.

34.

MORI dMEV II 150

150mm dia fan spigot

IPX4 RATED
SPLASHPROOF

TOTALLY
RECYCLABLE

5 YEAR
WARRANTY



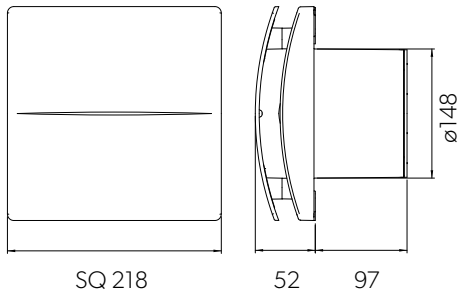
PERFORMANCE DATA

Performance curve	Airflow L/s	Power W max	Sound Pressure dB(A) @ 3m	Ambient Temperature °C max
1	6	0.9	4	50
2	8	1.1	5	
3	13	0.7	6	
4	15	1.1	8	
5	17	1.2	9	
6	21	1.4	11	
7	25	1.7	14	
8	29	1.7	17	
9	Boost - 50	6.8	35	

220-240V, 50Hz. Air performance measured according to ISO 5801.
MORI dMEV II 150HT - Energy rating: C.

DIMENSIONAL DATA

Dimensions in mm



ACCESSORIES

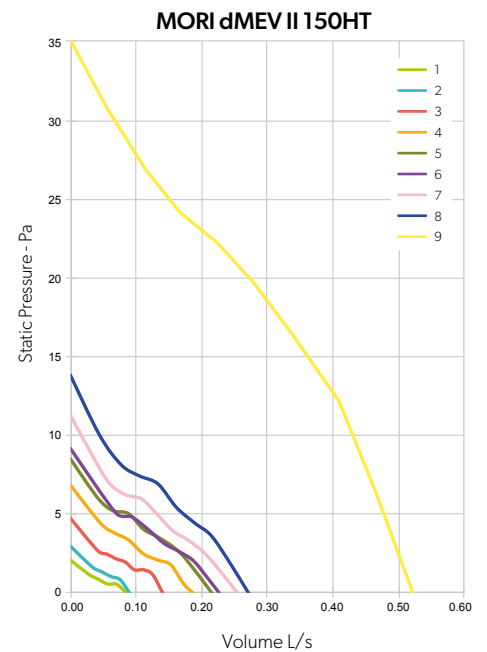


Supplied
Ceiling Mount Kit
410-CG150



Optional
Window Kit with
External Fixed Grille
410-WKG150

PERFORMANCE CURVES





MORI MEV HT

Centralised Mechanical
Extract Ventilation Unit



MORI MEV HT

Centralised Mechanical Extract Ventilation Unit



APPLICATION

A centralised, continuously running, low energy, ultra quiet extract unit that simultaneously extracts air from multiple rooms such as kitchens, utility rooms, bathrooms, shower rooms, en-suites and toilets via a system of ductwork with a single discharge to atmosphere.

OPERATION / CONTROL

The **MORI MEV HT** is the most flexible, adaptable unit of its type available on the market.

It can be set to operate in various control modes including:

- Single speed (fully adjustable).
- Two speed (each speed fully adjustable). The higher of the two speeds, i.e. the Boost speed, by means of a remote switch or remote sensor e.g. 149-SEN-PIR.

- Variable speed via remote controller 149-SEN-CTRLM.
- Variable speed via a building management system (BMS).
- Three speed (first two speeds are fully adjustable and third speed is maximum speed of the fan) via remote controller 149-SEN-3V or other compatible switch.

The unit also has an integral humidity sensor which can be enabled or disabled as required. When enabled and whenever the humidity threshold level is reached, the fan will automatically increase in speed by 15% over whichever speed setting the unit is on. When the humidity level drops below this set humidity threshold level the fan will continue to run at the 15% increased speed for a pre-set period of time before reverting back to the original speed.

FEATURES / BENEFITS

Regulatory compliant Complies with all UK building regulation requirements.

Independently tested by BRE See opposite for more information.

Extremely low power consumption Annual running costs of as little as £5 per year for continuous operation.

Ultra quiet Almost imperceptible noise level on background settings.

Robust construction Coated metal casing and durable plastic front cover and spigots.

Highly flexible 4 inlet spigots to aid in installation and minimise system pressure drops.

Very adaptable Numerous control strategies and a wide duty range.

Resilient Suitable for ambient temperatures up to 40°C.

Rigorously tested to relevant standards Each unit is tested in our factory.

Warranty Each **MORI MEV HT** has a 5 year warranty as standard*.

Suitable for simultaneous extraction from bathrooms, shower rooms, toilets, utilities & kitchens

ULTRA QUIET
VERY LOW RUNNING COSTS
WIDE OPERATING RANGE
VARIOUS CONTROL OPTIONS



EC EC MOTOR

6 KITCHEN + 6 WET ROOMS

5 YEAR WARRANTY

PERFORMANCE DATA

Model	Airflow L/s max	Power W max	SFP W/(L/s)	Sound Pressure Level dB(A) @ 3m	Ambient Temperature °C max
MORI MEV HT	108.8	36	0.16	14	40

220-240V. 50-60Hz. Air performance measured according to ISO 5801. Sound pressure level at 3m in free field, 40% speed. Energy Rating: B.

BRE TEST RESULT - RIGID DUCT APPLICATIONS

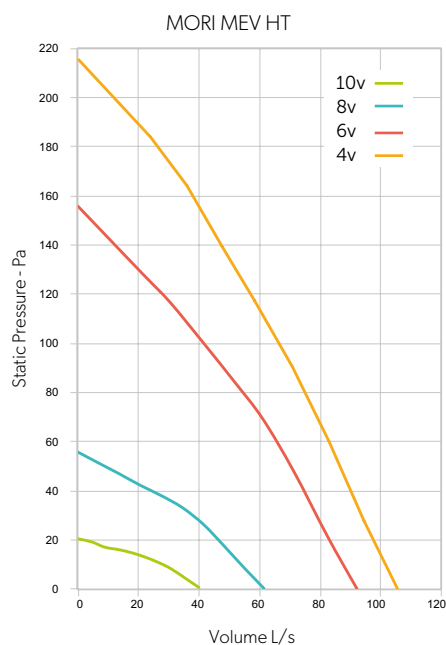
K+n wet rooms	Flow Rate L/s	SFP W/(L/s) [2009]	Flow Rate L/s	SFP W/(L/s) [2012]
n = 1	15	0.17	21	0.17
n = 2	21	0.16	29	0.16
n = 3	27	0.17	37	0.17
n = 4	33	0.20	45	0.20
n = 5	39	0.24	53	0.24
n = 6	45	0.28	61	0.28

The NCM (SAP) identifier for this product is: Technology Type Ventilation, Technology Category CMEV, Brand Name Elta Fans, Model Name MORI MEV.

KITCHEN + 6 WET ROOMS

0.16 SFP

PERFORMANCE CURVE



ACCESSORIES



PIR Sensor
149-SEN-PIR



3 speed selector
149-SEN-3V

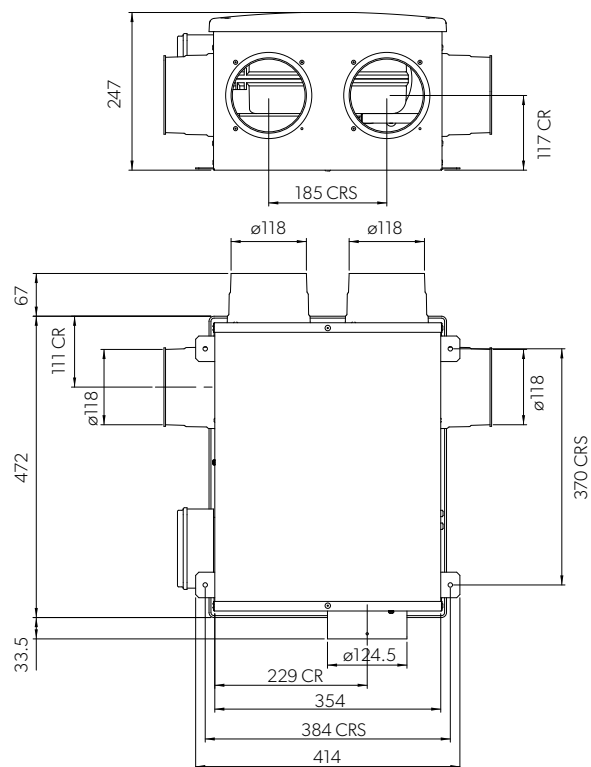


Potentiometer for speed control of EC motors
149-SEN-CTRLM

A full range of ancillaries and ducting are available for this product. Please contact us for more details.

MORI MEV HT

DIMENSIONAL DATA



Dimensions in mm.



MORI HR

Alternate Flow Supply & Extract
Fans with Heat Retention



MORI HR

Alternate Flow Supply & Extract Fans With Heat Retention



APPLICATION

A continuously running, low energy, ultra quiet, alternate flow supply and extract fan with heat retention for use in habitable areas such as living rooms, bedrooms, dining rooms, basements and hallways.

The unit helps a room “breathe” and reduces indoor air pollutants and humidity levels. The unit is ideal for tackling problems associated with condensation dampness such as mould growth.



OPERATION

Every 70 seconds the unit alternates between supply and extract fan modes. When in extract mode the unit’s high efficiency ceramic heat exchanger collects and retains heat from the extracted air. The majority of this heat is then transferred to the incoming air during supply mode.

This method of operation avoids the short circuiting of air that can often happen with conventional single room heat recovery units, resulting in much more effective room ventilation.

Units can also be set to work in harmony with each other e.g. when a unit in one room is extracting air another unit in another room can be set to supply air. This can greatly enhance cross ventilation and ventilation effectiveness in a home.



FEATURES / BENEFITS

Extremely low power consumption Costs less than £2 a year to run for continuous operation on low speed.

Energy efficient Integral Regenerative Heat Exchanger with up to 90% efficiency.

Ultra quiet Almost imperceptible noise levels on lower settings.

Aesthetically pleasing Attractive internal front fascia blends well with most wall finishes.

Wide application range 2 models each with 3 different airflow settings to choose from.

Rigorously tested to relevant standards Each fan is individually tested prior to leaving the factory.

Optional user controller Which can control 1-4 units allowing selection of off/speed 1/speed 2/speed 3/extract or supply only.

Warranty Each **MORI HR** has a 5 year warranty as standard*.

Condensation control & improved air quality for bedrooms, living rooms, dining rooms, hallways & basements

ULTRA QUIET
VERY LOW RUNNING COSTS
WIDE OPERATING RANGE
VARIOUS CONTROL OPTIONS

ENERGY
RATING **A**

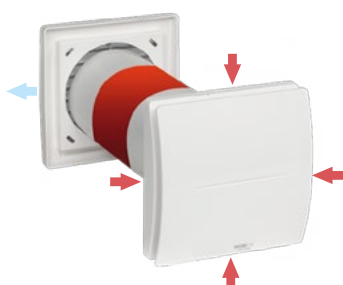


PERFORMANCE DATA

Model	Airflow L/s	Power W max	Sound Pressure dB(A) @ 3m
MORI HR 100	3 / 4 / 7	1.2 / 1.7 / 2.6	9 / 15 / 29
MORI HR 150	6 / 11 / 17	1.4 / 2.3 / 3.8	8 / 18 / 26

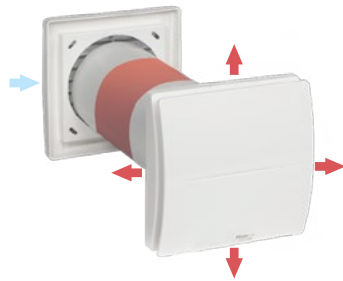
220-240V. 50Hz. Air performance measured according to ISO 5801 at 230V 50Hz, air density 1.2 kg/m³. Data measured in our TÜV Rheinland accredited laboratory. Pressure sound level at 3m in free field.

HEAT RETENTION

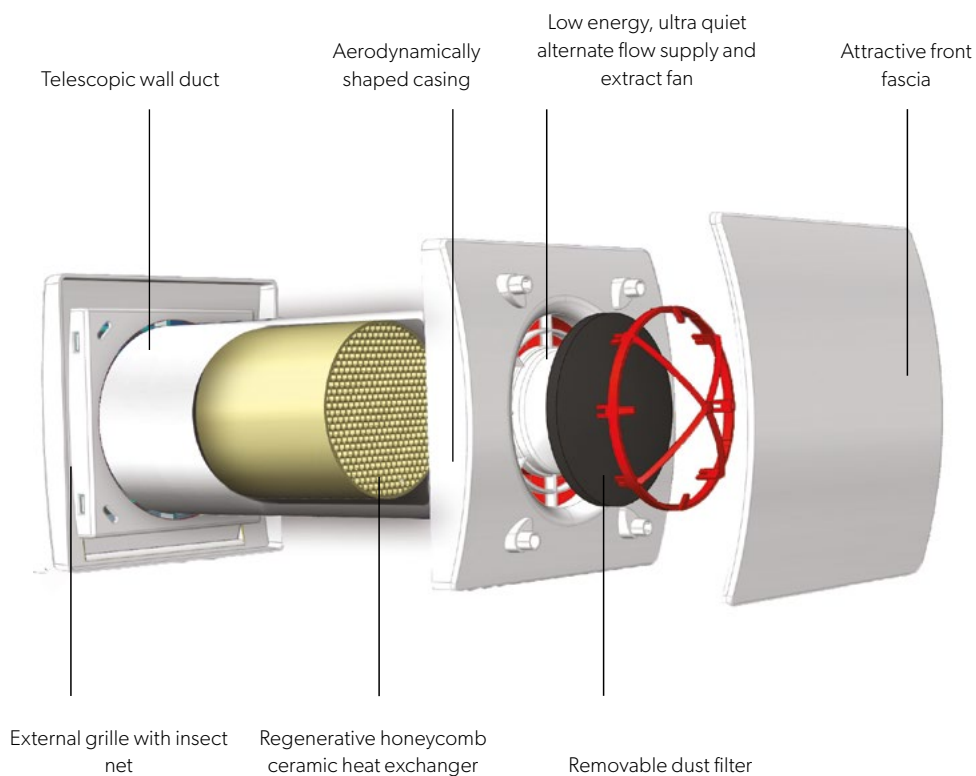


Unit on extraction and heat retention mode

HEAT TRANSFER



Unit on supply and heat transfer mode



CONTROLS

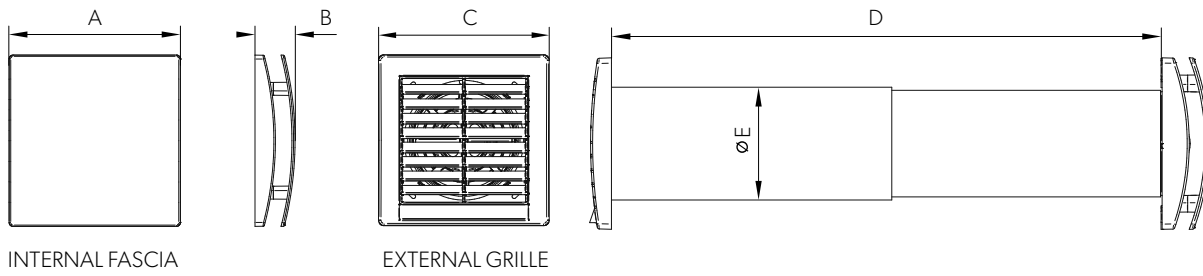


Optional user controller to operate 1-4 units. 149-SEN-CTRLS-P

MORI HR**DIMENSIONAL DATA**

Model	A	B	C	D	E
MORI HR 100	164	46	164	270-510	108
MORI HR 150	218	51	218	300-560	158

Dimensions in mm.



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Alternate Flow Supply & Extract
Fan with Heat Retention



MORI HR NEXT



APPLICATION

A continuously running, low energy, ultra quiet, alternate flow supply and extract fan with heat retention for use in habitable areas such as living rooms, bedrooms, dining rooms, basements and hallways. The unit helps a room "breathe" and reduces indoor air pollutants and humidity levels. The unit is ideal for tackling problems associated with condensation dampness such as mould growth.



OPERATION

The unit alternates between supply and extract fan modes. When in extract mode the unit's high efficiency ceramic heat exchanger collects and retains heat from the extracted air. The majority of this heat is then transferred to the incoming air during supply mode. This method of operation avoids the short circuiting of air that can often happen with conventional single room heat recovery units, resulting in much more effective room ventilation. The time between each alternation is automatically adjusted depending on temperatures to ensure the maximum possible comfort, and no cold air is brought into the home. Units can also be set to work in harmony with each other e.g. when a unit in one room is extracting air another unit in another room can be set to supply air. This can greatly enhance cross ventilation and ventilation effectiveness in a home.



FEATURES / BENEFITS

Easy installation and replacement Unit can be removed from its base easily during maintenance or replacement.

Smart comfort mode Flow alternation is automatically adjusted to ensure the maximum possible comfort, and no cold air is brought into the home.

Wide application range With 5 different speed settings to choose from the unit is adaptable for a wide range of property types and sizes.

Infra-red remote controller LCD display allowing easy commissioning, alteration of speed and operation settings.

Smart humidity control The unit can detect higher than normal humidity and increase in speed to suit.

Extremely low power consumption Costs less than £2 a year to run for continuous operation on low speed.

Energy efficient Integral Regenerative Heat Exchanger with over 80% efficiency.

Warranty Each **MORI HR Next** has a 5 year warranty as standard*.

Condensation control & improved air quality for bedrooms, living rooms, dining rooms, hallways & basements

ULTRA QUIET
VERY LOW RUNNING COSTS
WIDE OPERATING RANGE
VARIOUS CONTROL OPTIONS

ENERGY
RATING **A**

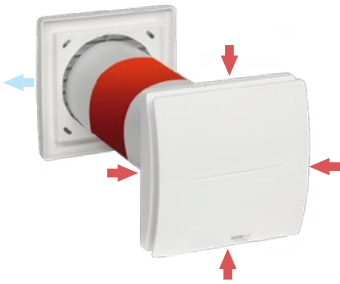


PERFORMANCE DATA

Model	Airflow L/s	Power W max	Sound Pressure dB(A) @ 3m	Thermal efficiency %
MORI HR Next	6 / 8 / 11 / 14 / 17	2 / 2.5 / 3.5 / 4.5 / 6	10 / 14 / 20 / 24 / 29	82 / 78 / 74 / 72 / 70

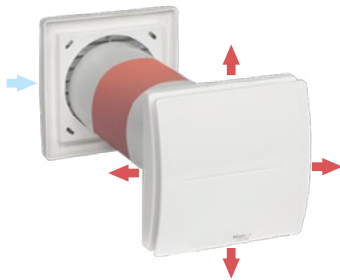
220-240V, 50Hz. Air performance measured according to ISO 5801 at 230V 50Hz, air density 1.2 kg/m³. Data measured in our TÜV Rheinland accredited laboratory. Pressure sound level at 3m in free field.

HEAT RETENTION

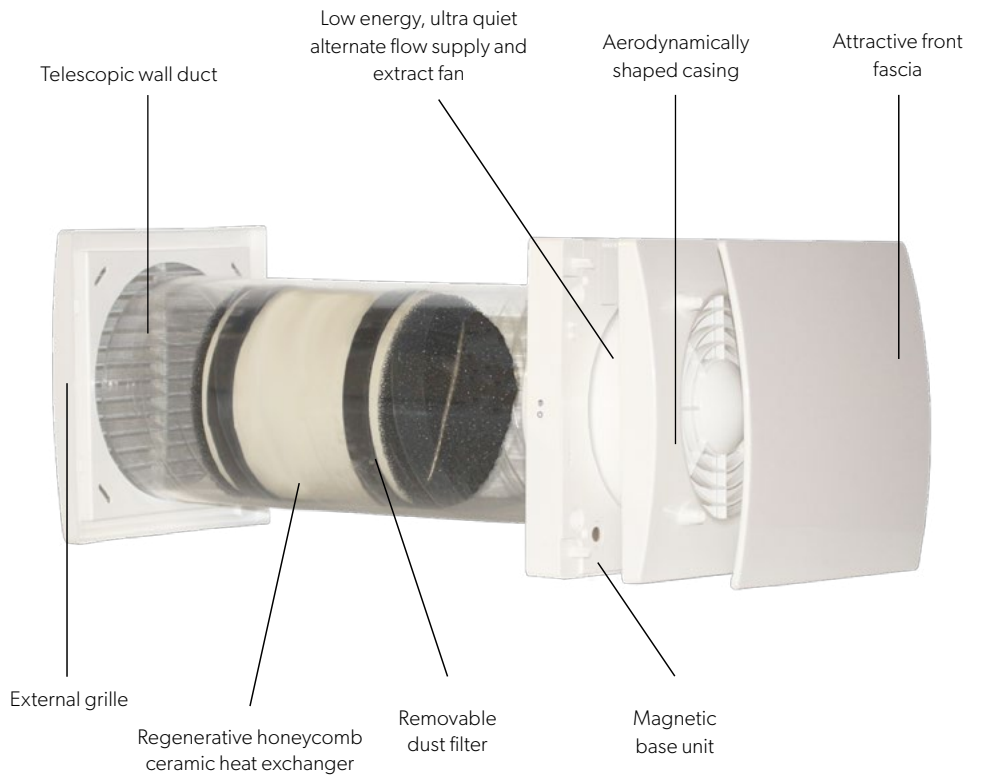


Unit on extraction and heat retention mode

HEAT TRANSFER



Unit on supply and heat transfer mode



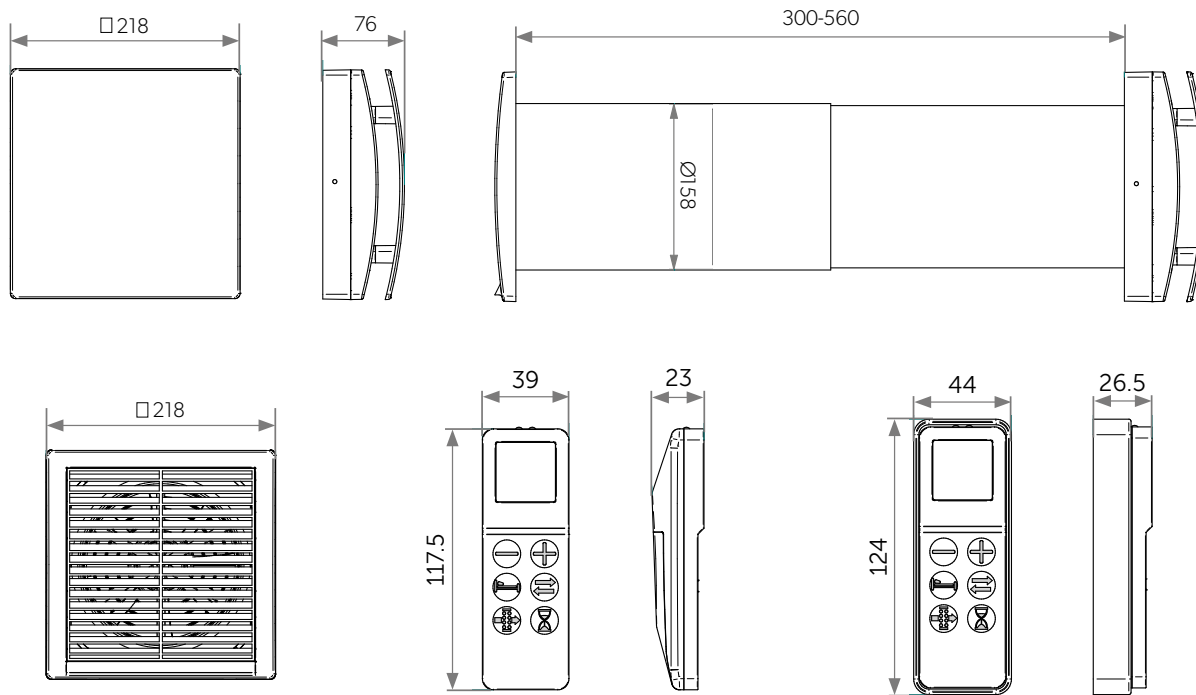
CONTROLS



Remote and support base supplied

MORI HR NEXT

DIMENSIONAL DATA



Dimensions in mm.

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VIGO 350A



Mechanical Ventilation with
Heat Recovery Unit



VIGO 350A

Mechanical Ventilation with Heat Recovery Unit



APPLICATION

A continuously running Mechanical Ventilation with Heat Recovery (MVHR) system simultaneously extracts air from “wet” rooms while supplying fresh, filtered air to the “habitable” rooms in a home. MVHR is widely recognised as the very best method of ventilating modern new build or re-furbished, energy efficient homes.

At the heart of any good MVHR system there has to be a very good MVHR unit. The **VIGO 350A** is such a unit. In fact, without wishing to sound conceited, we think it is peerless. It is highly efficient, ultra quiet and flexible with a range of control and indication features second to none. The unit’s integral, counterflow high efficiency heat exchanger, with bypass facility operated automatically by integral sophisticated controls, provides warm or cool, filtered fresh air as required to help maintain the internal environmental conditions selected by the occupants.

OPERATION / CONTROL

The VIGO 350A MVHR unit is a highly flexible unit which can be set to operate in various operating modes to suit the individual requirements of each project.

Commissioning, control and indication functions include:

- 3 Airflow speed settings (each fully adjustable).
- Boost option.
- Holiday mode.
- Night mode.
- Airflow “handing”.
- Airflow balancing.
- Automatic heat exchanger bypass facility.
- Filter replacement, fan failure and bypass activated mode indication.
- Working hour counter.
- Setting saving and loading facility.
- Volt free contacts for remote ambient sensors.
- BMS connection control facility.
- Integral switched live terminal for boosting from remote switch.

The unit can also be provided with automatic humidity control if required.

FEATURES / BENEFITS

Aesthetically pleasing White powder coated metal outer casing. Electronic “handing” function aids installation and avoids unsightly duct connections. See opposite for more information.

Robust and efficient EPP internal structure to reduce sound emissions, maximise air tightness and improve thermal and electrical efficiency.

Comfort and heat recovery optimisation Intelligently controlled automatic summer/winter bypass facility.

Regulatory Compliant Complies with the requirements of all UK Building Regulations and also with NHBC Chapter 3.2 user control and indication requirements.

Independently tested by BRE See opposite for more information.

User control and indication Panel with LCD readout which can be mounted adjacent to or remote from the unit.

Air filtration G4 air supply filter and G4 grade extract air filter.

Automatic frost protection Prevents freezing within the unit.

Double condensate holes For heating and cooling condensate drainage.

Rigorously tested to relevant standards Each unit is tested in our factory.

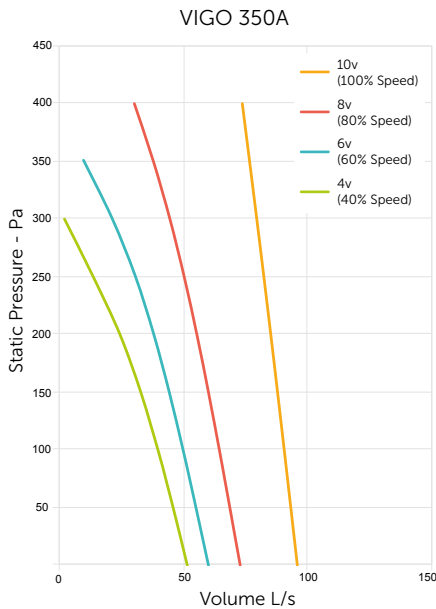
Warranty Each **VIGO 350A** has a 5 year warranty as standard*.

ULTRA QUIET
EXCEPTIONALLY GOOD INDOOR AIR QUALITY
HEAT AND COOLTH RECOVERY
HIGHLY FLEXIBLE
VARIOUS CONTROL OPTIONS



ENERGY RATING: A

PERFORMANCE CURVE



PERFORMANCE DATA

Model	Air flow L/s max	Power W max	SFP W/(L/s)	Sound Pressure dB(A) @3m	Heat Exchange Efficiency %	Ambient Temperature °C max
VIGO 350A	96	322	0.98	32	89.0	40

350V, 50Hz. Air performance measured according to ISO 5801. Thermal efficiency and air-tightness details have been measured at BRE independent laboratory. Sound pressure level at 3m in free field, 40% speed.

BRE TEST RESULT

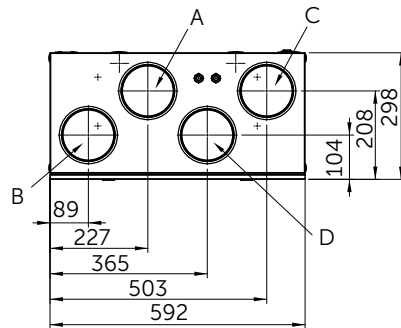
Kitchen + n Wet Rooms	Flow Rate L/s	SFP W/(L/s) (2009)	Efficiency (%) (2009)	Flow Rate L/s	SFP W/(L/s) (2012)	Efficiency (%) (2012)
n = 1	15	0.91	89	21	0.98	89
n = 2	21	0.96	89	29	1.15	88
n = 3	27	1.07	88	37	1.42	87
n = 4	33	1.28	87	-	-	-

The NCM (SAP) identifier for this product is:

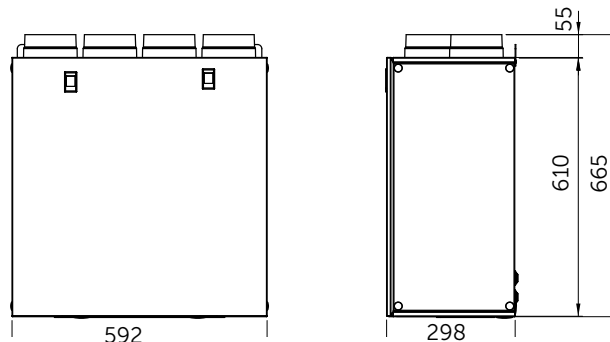
Technology Type Ventilation, **Technology Category** MVHR, **Brand Name** Elta Fans, **Model Name** VIGO 350.

DIMENSIONAL DATA & SPIGOTS HANDING

Dimensions in mm



Spigot	Left Handed	Right Handed
A	Intake from outside	Extract from home
B	Exhaust to outside	Supply to home
C	Supply to home	Exhaust to outside
D	Extract from home	Intake from outside



CONTROL PANEL



The **VIGO 350A** is supplied with a control panel providing full commissioning, control and indication functions.

A full range of ancillaries and ducting are available for this product. Please contact us for more details.

VIGO 350A

SOUND DATA

Product Code	Configuration		Sound Power Level dBW @ Octave Band Hz								dBA @ 3A	
			63 Hz	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz		Total
Vigo 350A	10V (100% Speed)	Extract from home	82	80	74	71	61	50	40	35	85	51
		Exhaust to outside	84	84	78	78	75	66	58	54	88	59
		Intake from outside	84	80	74	68	64	50	41	36	86	50
		Supply to home	84	82	78	78	72	65	57	58	87	58
		Break Out	68	65	64	64	59	57	50	37	72	45
	8V (80% Speed)	Extract from home	78	77	71	67	58	47	36	31	81	47
		Exhaust to outside	82	82	76	76	71	64	55	51	86	56
		Intake from outside	81	77	71	66	60	47	38	32	83	47
		Supply to home	79	78	74	75	67	60	52	48	83	54
		Break Out	59	61	60	60	55	53	46	32	67	41
	6V (60% Speed)	Extract from home	74	71	68	66	52	40	27	23	77	45
		Exhaust to outside	78	78	72	72	64	57	47	41	82	51
		Intake from outside	75	70	66	62	53	39	29	23	77	42
		Supply to home	77	76	70	69	63	54	44	39	80	49
		Break Out	57	59	58	58	50	47	38	27	64	37
	4V (40% Speed)	Extract from home	72	64	69	55	45	29	21	21	74	41
		Exhaust to outside	74	73	69	63	55	47	34	29	77	44
		Intake from outside	74	67	65	54	48	31	23	2	75	38
		Supply to home	73	70	69	61	53	44	31	25	76	43
		Break Out	53	54	59	48	44	38	29	25	61	32

homevent[^]

A division of Elta Fans

VIGO 550A



Mechanical Ventilation with
Heat Recovery Unit



VIGO 550A

Mechanical Ventilation with Heat Recovery Unit



APPLICATION

A continuously running Mechanical Ventilation with Heat Recovery (MVHR) system simultaneously extracts air from “wet” rooms while supplying fresh, filtered air to the “habitable” rooms in a home. MVHR is widely recognised as the very best method of ventilating modern new build or re-furbished, energy efficient homes.

At the heart of any good MVHR system there has to be a very good MVHR unit. The **VIGO 550A** is such a unit. In fact, without wishing to sound conceited, we think it is peerless. It is highly efficient, ultra quiet and flexible with a range of control and indication features second to none. The unit’s integral, counterflow high efficiency heat exchanger, with bypass facility operated automatically by integral sophisticated controls, provides warm or cool, filtered fresh air as required to help maintain the internal environmental conditions selected by the occupants.

OPERATION / CONTROL

The **VIGO 550A** MVHR unit is a highly flexible unit which can be set to operate in various operating modes to suit the individual requirements of each project.

Commissioning, control and indication functions include:

- 3 Airflow speed settings (each fully adjustable).
- Boost option.
- Holiday mode.
- Night mode.
- Airflow “handing”.
- Airflow balancing.
- Automatic heat exchanger bypass facility.
- Filter replacement, fan failure and bypass activated mode indication.
- Working hour counter.
- Setting saving and loading facility.
- Volt free contacts for remote ambient sensors.
- BMS connection control facility.
- Integral switched live terminal for boosting from remote switch.

The unit can also be provided with automatic humidity control if required.

FEATURES / BENEFITS

Aesthetically pleasing White powder coated metal outer casing.

Electronic “handing” function aids installation and avoids unsightly duct connections. See opposite for more information.

Robust and efficient EPP internal structure to reduce sound emissions, maximise air tightness and improve thermal and electrical efficiency.

Comfort and heat recovery optimisation Intelligently controlled automatic summer/winter bypass facility.

Regulatory Compliant Complies with the requirements of all UK Building Regulations and also with NHBC Chapter 3.2 user control and indication requirements.

Independently tested by BRE See opposite for more information.

User control and indication Panel with LCD readout which can be mounted adjacent to or remote from the unit.

Air filtration F7 air supply filter and G4 grade extract air filter.

Automatic frost protection Prevents freezing within the unit.

Double condensate holes For heating and cooling condensate drainage.

Rigorously tested to relevant standards Each unit is tested in our factory.

Warranty Each **VIGO 550A** has a 5 year warranty as standard*.

ULTRA QUIET
EXCEPTIONALLY GOOD INDOOR AIR QUALITY
HEAT AND COOLTH RECOVERY
HIGHLY FLEXIBLE
VARIOUS CONTROL OPTIONS



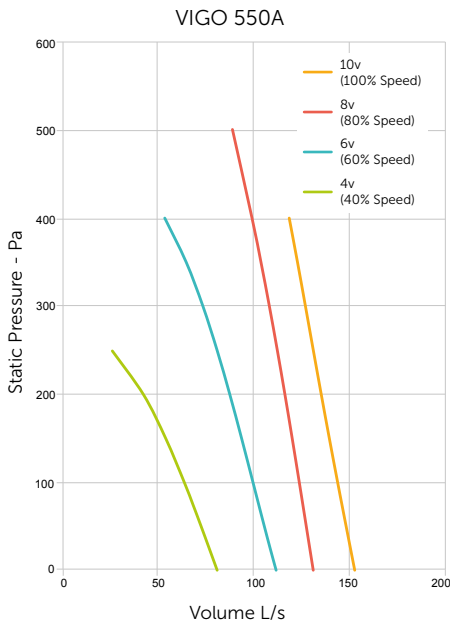
PERFORMANCE DATA

Model	Air flow L/s max	Power W max	SFP W/(L/s)	Sound Pressure dB(A) @3m	Heat Exchange Efficiency %	Ambient Temperature °C max
VIGO 550A	152	342	0.56	34	93.0	40

550V. 50Hz. Air performance measured according to ISO 5801. Thermal efficiency and air-tightness details have been measured at BRE independent laboratory. Sound pressure level at 3m in free field, 40% speed.

ENERGY RATING: A

PERFORMANCE CURVE



BRE TEST RESULT

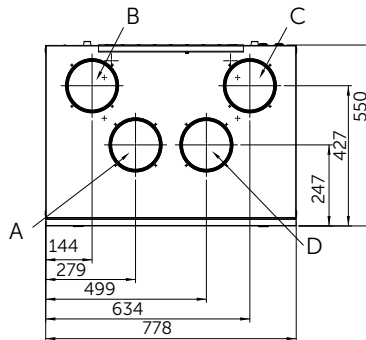
Kitchen + n Wet Rooms	Flow Rate L/s	SFP W/(L/s) (2009)	Efficiency (%) (2009)	Flow Rate L/s	SFP W/(L/s) (2012)	Efficiency (%) (2012)
n = 1	15	0.57	93	21	0.56	93
n = 2	21	0.51	93	29	0.58	93
n = 3	27	0.52	93	37	0.63	91
n = 4	33	0.58	92	45	0.74	91
n = 5	39	0.65	91	53	0.87	90
n = 6	45	0.72	91	61	1.04	89
n = 7	51	0.83	90	69	1.22	89

The NCM (SAP) identifier for this product is:

Technology Type Ventilation, **Technology Category** MVHR, **Brand Name** Elta Fans, **Model Name** VIGO 550.

DIMENSIONAL DATA & SPIGOT HANDING

Dimensions in mm

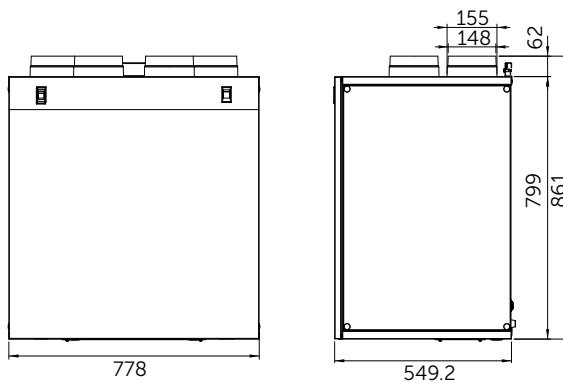


Spigot	Left Handed	Right Handed
A	Intake from outside	Extract from home
B	Exhaust to outside	Supply to home
C	Supply to home	Exhaust to outside
D	Extract from home	Intake from outside

CONTROL PANEL



The **VIGO 550A** is supplied with a control panel providing full commissioning, control and indication functions.



A full range of ancillaries and ducting are available for this product. Please contact us for more details.

VIGO 550A

SOUND DATA

Product Code	Configuration		Sound Power Level dBW @ Octave Band Hz								dBA @ 3m	
			63 Hz	125 Hz	250 Hz	500 Hz	1k Hz	2k Hz	4k Hz	8k Hz		Total
Vigo 550A	10V (100% Speed)	Extract from home	77	72	69	74	58	50	39	35	80	51
		Exhaust to outside	83	81	76	85	72	63	55	54	88	62
		Intake from outside	79	72	68	70	57	49	38	35	80	48
		Supply to home	85	82	76	88	72	65	60	67	91	65
		Break Out	64	63	63	74	62	56	45	33	75	51
	8V (80% Speed)	Extract from home	73	69	65	71	54	44	32	28	76	48
		Exhaust to outside	80	80	74	82	70	61	55	57	86	59
		Intake from outside	76	69	68	67	56	48	38	35	78	46
		Supply to home	80	78	77	83	65	58	53	60	86	60
		Break Out	65	62	62	71	60	53	43	31	73	48
	6V (60% Speed)	Extract from home	66	66	72	68	49	38	25	20	75	47
		Exhaust to outside	76	76	77	75	64	55	50	47	82	54
		Intake from outside	76	69	68	67	56	48	38	35	78	45
		Supply to home	74	73	76	65	56	50	47	55	79	49
		Break Out	57	57	69	61	52	46	35	27	70	42
	4V (40% Speed)	Extract from home	62	61	60	52	38	27	16	16	66	33
		Exhaust to outside	68	70	72	61	53	45	36	29	75	44
		Intake from outside	61	62	61	52	40	32	24	20	66	34
		Supply to home	65	71	66	56	46	40	28	23	73	40
		Break Out	52	54	61	52	44	37	28	23	63	34

INSTALLATION SERVICE

In addition to the supply of world class home ventilation products, we can also offer a complete design, supply, installation and commissioning service to customers in many parts of the UK.

As a member of NAPIT's Ventilation Competent Persons Scheme, we can ensure all installation work we do is notified to Building Control as appropriate, ensuring regulatory compliance for our customers.

Building Regulations Compliance Certificate
NAPIT has notified your local authority Building Control of the work detailed on this certificate. The Installer (named below) confirms that the work completed at the address shown below complies with parts 4 & 7 of the Building Regulations

Certificate Delivery Address: _____ Installation Address: _____

NAPIT

Schedule of Work:			
Item	Qty	Item	Qty
Install a mechanical ventilation system in a dwelling - Flat Dwelling	1		

Certificate Number: _____
Date of Installation: _____
Membership Number: 60841
Installer Name: Elta Fans Limited

This certificate is issued by NAPIT Registration Ltd on behalf of the named installation company in accordance with Regulation 20 of the Building Regulations. Regulation 20(5) states that a certificate given in accordance with this regulation shall be evidence (but not conclusive evidence) that the requirements specified in the certificate have been complied with.



THE FACES BEHIND HOMEVENT

Our Managing Director is John Bradley and our Head of Sales is Paul Harrington. Between them they have over 6 decades of experience of working in the ventilation industry.

They can offer system design, installation and commissioning advice as well as guidance on regulatory matters related to home ventilation. They also provide "in house training" tailored to individual customer requirements.

John is the current Chairman of The Property Care Association (PCA) and Paul is the lead tutor of the PCA's Residential Ventilation Masterclass.



JOHN BRADLEY



PAUL HARRINGTON

HOMEVENT TERMS AND CONDITIONS OF SALE

As we are a specialist division of Elta Fans, Elta Fans Ltd. Standard Terms and Conditions of Sale apply to all products we sell. A copy of these is available on request.

OUR HOMEVENT 5 YEAR WARRANTY

Our 5 year warranty is provided only to customers who purchased directly from our Homeevent division. If you purchased elsewhere then please contact them directly and they will let you know their warranty procedure. Our warranty covers repair or replacement of defective goods only. It does not cover any labour costs associated with defective product or component removal or installation, nor does it cover the cost of sending goods back to us for inspection.

Our warranty is subject to storage, installation, commissioning, inspection and maintenance having been carried out in accordance with our Installation and Maintenance Instructions (supplied with each product) and which are also available to view, save or print from our website.

OUR HOMEVENT WARRANTY CLAIM PROCEDURE

All warranty claims will be dealt with via our online Homeevent Warranty Claim Procedure. Installation pictures and electrical wiring details along with proof of purchase and details of periodic inspection and maintenance carried out will be required in the event of any warranty claim. To make a claim please contact us about your claim and we will provide an online form to be completed. Please note that we will only process a warranty claim if all information required is provided in the online form.

homevent

A division of **Elta Fans**

Homeevent is the specialist residential division of Elta Fans, offering a full range of ventilation services and products for new and existing homes. Our experienced staff are trained specifically to provide outstanding levels of technical competence and customer service to customers.

Tel: +44 (0) 1384 275822, **Email:** residential@eltafans.co.uk
46 Third Avenue, Pensnett Trading Estate, Kingswinford, West Midlands, DY6 7US, UK

www.homevent.co.uk

A MEMBER OF  **ELTA GROUP**